

NORTH AMERICAN LISTINGS including Hawaii and U.S. possessions

\$35.00

IN THIS ISSUE

**752,427 Licensed
Radio Amateurs**

**57,154 New Licenses
Issued Since
the 1995 Edition**

**Over 81,000 Changes
in Listings**

**Then and Now—
Call Letter Changes**

**6 and 10 Meter
Beacon Lists**

**Radio Amateur
Prefixes
of the World**

**Table of Call Sign
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DXC Countries List

**Census of Amateur
Radio Licenses
of the World**

**Census of Amateur
Radio Licenses
of the U.S.**

**Radio Amateurs
Operating with
Reciprocal Licenses**

**World Wide QSL
Bureaus**

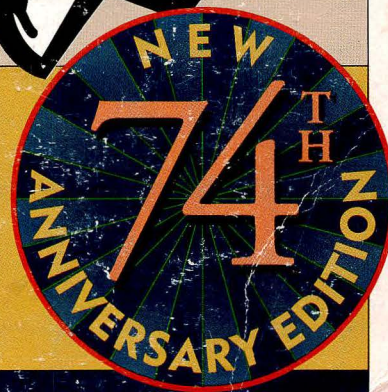
**Plus Many Other
Features**

RADIO AMATEUR CALL BOOK



FOR USE THROUGHOUT

1996



The Only Publication Listing Licensed Radio Amateurs Throughout the World Since 1920



Now is the time. This is the year.

If you've put it off... make your move
on the new **1996 ARRL Handbook**.

Building on last year's top-to-bottom rewrite, the brand new **1996 ARRL Handbook** is packed with new projects and updated information. And, for the first time in **Handbook** history, the 1996 edition includes SOFTWARE. See the full description of disk below for details! Whether you're an Amateur Radio beginner, an experienced operator, electronic technician, engineering student or engineer, you'll find each chapter of the 1996 ARRL Handbook a standalone "mini-book" that will cover your favorite topics and provide invaluable reference material, fascinating facts and some great new do-it-yourself projects.

No matter what aspect of Amateur Radio piques your interest, you'll find what you're looking for in the new **1996 ARRL Handbook**. Take a look at some highlights:

Station Accessories—12-V distribution boxes for station (and mobile) accessories. An audio break-out box feeds several accessories from a single source. Use the RF Sniffer to track down sources of RF. A simple two-channel analog-to-digital converter project lets your computer make measurements and compute SWR. An audio display for meters is handy for both vision impaired and sighted hams. Several hams tell how to transport H-Ts conveniently. And keys for all! An updated Uncle Al's keyer reads code too, two more based on the Curtis 8044ABM IC, and a CW send and receive system for IBM compatible computers.

Antennas—More antennas for new hams! Examples: a simple wire loop for 28 MHz and a copper 2-meter J-pole. Also, selected antenna Hints and Kinks.

Transceivers—Check out the new multiband QRP transceiver from Wayne Burdick, N6KR, and the NorCal QRP club: Operate 160 through 10 meters with plug-in band modules. Try a VLF transceiver (no license required!) or a QRP transmitter built from a single IC.

Filters—A new DSP filter from Dave Hershberger, W9GR, offers 18 different modes, including DTMF and CTCSS tone decoding.

Satellites—Learn about plans for the new Phase 3D bird. Build a "Junk Box" Satellite Receiver or a Mode-S Receive Converter.

Amplifiers—'96 is the year for 2-meter amplifiers: A new "brick" amplifier can boost an H-T to 25 or 50 W (builder's choice), and a 3CX1200Z7 provides 1.2 kW. Now that's talk power! For high-power buffs, there's a 3200-V, 2-A supply.

Modulation Sources—G-TOR, CLOVER and PACTOR II are on the cutting edge of amateur HF digital communication. Read Chapter 12 and decide which mode is best for your application.

Once you pick up your copy of the new **1996 ARRL Handbook**, you'll be glad you waited. Order your copy today. ARRL Order #1735 — Retail \$38 plus \$6 for shipping and handling, 1168 pages in softcover.



For the First Time: ARRL Handbook Software

This year's **ARRL Handbook** includes a 3.5-inch, 1.44-MB IBM compatible diskette with a variety of standalone applications and programs used with projects in the book.

TISFIND, a Windows application from the ARRL's Technical Information Service, provides you with the names and addresses of more than 900 Amateur Radio vendors and organizations. Your frustrating hunts for suppliers are history!

COILS, from Brian Beezley, K6STI, calculates the important characteristics of solenoidal coils.

ACTFIL is for designing active audio filters described in the Filters chapter.

The disk also features the software side of several projects in the book: an SSTV interface from Ben Vester, K3BC; a PC interface for sending CW from Ralph Taggart, WB8DQT; and a PC voltmeter from Paul Danzer, N1II.

Other software is useful for helping to find true North; for designing shortened, inductively loaded dipoles; and for designing Pi and Pi-L matching networks.

W3PT (EX 10A)

RADIO AMATEURS of NORTH AMERICA

Including Hawaii and the U.S. Possessions

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1996**

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Licensed radio amateurs are listed in the Callbook without charge except Special Listings. Every effort is made to keep this publication as complete and accurate as possible. Please notify us promptly of any of any change in your address. We cannot accept responsibility for errors, omissions, misspelled names, or incorrect addresses.

Any errors should be called to the Company's attention immediately.

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RADIO AMATEUR CALLBOOK



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Includes Guam, U.S. Virgin Islands, and the States of New Jersey and New York.	
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Includes the District of Columbia and the States of Delaware, Maryland, and Pennsylvania.	
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FIFTH U.S. CALL AREA	750
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SIXTH U.S. CALL AREA	941
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SEVENTH U.S. CALL AREA	1250
Includes the States of Alaska, Arizona, Idaho, Montana, Nevada, Oregon, Utah, Washington, and Wyoming.	
EIGHTH U.S. CALL AREA	1439
Includes American Samoa and the States of Michigan, Ohio and West Virginia.	
NINTH U.S. CALL AREA	1605
Includes the States of Illinois, Indiana, and Wisconsin.	
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Includes the Mariana Islands and the States of Colorado, Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, and South Dakota.	
NORTH AMERICAN COUNTRIES OUTSIDE THE U.S.A.	1902

Radio Amateur Callbook known the world over as the "Callbook"

TABLE OF ALLOCATION OF INTERNATIONAL CALL SIGN SERIES

As Issued by the International Telecommunications Union and Others

Call Sign Series

AAA-ALZ	United States of America	OMA-OMZ	Slovak Republic	ZPA-ZPZ	Paraguay	9HA-9HZ	Malta
AMA-AOZ	Spain	ONA-OTZ	Belgium	ZQA-ZOZ	Great Britain & Northern Ireland	9IA-9JZ	Zambia
APA-ASZ	Pakistan	OUA-OZZ	Denmark	ZRA-ZUZ	Rep. of South Africa	9KA-9KZ	Kuwait
ATA-AWZ	India			ZVA-ZZZ	Brazil	9LA-9LZ	Sierra Leone
AXA-AXZ	Australia	PAA-PIZ	Netherlands			9MA-9MZ	Malaysia
AYA-AZZ	Argentina	PJA-PJZ	Netherlands Antilles	2AA-2ZZ	Great Britain & Northern Ireland	9NA-9NZ	Nepal
		PKA-POZ	Indonesia	3AA-3AZ		9OA-9TZ	Zaire
BAA-BZZ	China	PPA-PYZ	Brazil	3BA-3BZ	Monaco	9UA-9UZ	Burundi
		PZA-PZZ	Surinam	3CA-3CZ	Mauritius	9VA-9VZ	Singapore
CAA-CEZ	Chile			3DA-3DM	Equatorial Guinea	9WA-9WZ	Malaysia
CFA-CKZ	Canada	RAA-RZZ	Russian Federation	3DN-3DZ	Swaziland	9XA-9XZ	Rwanda
CLA-CMZ	Cuba			3EA-3EZ	Fiji	9YA-9ZZ	Trinidad and Tobago
CNA-CNZ	Morocco	SAA-SMZ	Sweden	3GA-3GZ	Panama		
COA-COZ	Cuba	SNA-SRZ	Poland	3HA-3HZ	Chile	A2A-A2Z	Botswana
CPA-CPZ	Bolivia	SSA-SSM	Egypt	3IA-3IZ	China	A3A-A3Z	Tonga
CQA-CUZ	Portugal	SSN-SSZ	Sudan	3VA-3VZ	Tunisia	A4A-A4Z	Oman
CVA-CXZ	Uruguay	STA-STZ	Sudan	3WA-3WZ	Viet Nam	A5A-A5Z	Bhutan
CYA-CZZ	Canada	SUA-SUZ	Egypt	3XA-3XZ	Guinea	A6A-A6Z	United Arab Emirates
		SVA-SZZ	Greece	3YA-3YZ	Norway	A7A-A7Z	Qatar
				3ZA-3ZZ	Poland	A8A-A8Z	Liberia
DAA-DRZ	Germany	TAA-TCZ	Turkey			A9A-A9Z	Bahrain
DSA-DTZ	South Korea	TDA-TDZ	Guatemala	4AA-4CZ	Mexico		
DUA-DZZ	Philippines	TEA-TEZ	Costa Rica	4DA-4IZ	Philippines	C2A-C2Z	Nauru
		TFA-TFZ	Iceland	4JA-4KZ	Azerbaijan	C3A-C3Z	Andorra
EAA-EHZ	Spain	TGA-TGZ	Guatemala	4LA-4LZ	Georgia	C4A-C4Z	Cyprus
EIA-EJZ	Ireland	THA-THZ	France	4MA-4MZ	Venezuela	C5A-C5Z	Gambia
EKA-EKZ	Armenia	TIA-TIZ	Costa Rica	4NA-4OZ	Yugoslavia	C6A-C6Z	Bahamas
ELA-ELZ	Liberia	TJA-TJZ	Cameroon	4PA-4SZ	Sri Lanka	C7A-C7Z	World Meteorological Organization
EMA-EOZ	Ukraine	TKA-TKZ	France	4TA-4TZ	Peru	C8A-C9Z	Mozambique
EPA-EOZ	Iran	TLA-TLZ	Central African Republic	4UA-4UZ	United Nations		
ERA-ERZ	Moldova	TMA-TMZ	France	4VA-4VZ	Haiti	D2A-D3Z	Angola
ESA-ESZ	Estonia	TNA-TNZ	Congo	4XA-4XZ	Israel	D4A-D4Z	Cape Verde
ETA-ETZ	Ethiopia	TOA-TOZ	France	4YA-4YZ	Int. Civil Aviation Organization	D5A-D5Z	Liberia
EUA-EWZ	Belarus	TRA-TRZ	Gabon	4ZA-4ZZ	Israel	D6A-D6Z	Comoros
EXA-EXZ	Russian Federation	TSA-TSZ	Tunisia			D7A-D9Z	South Korea
EYA-EYZ	Tajikistan	TTA-TTZ	Chad	5AA-5AZ	Libya		
EZA-EZZ	Turkmenistan	TUA-TUZ	Ivory Coast	5BA-5BZ	Cyprus	E2A-E2Z	Thailand
		TVA-TXZ	France	5CA-5GZ	Morocco		
FAA-FZZ	France	TYA-TYZ	Benin	5HA-5IZ	Tanzania	H2A-H2Z	Cyprus
		TZA-TZZ	Mali	5JA-5KZ	Colombia	H3A-H3Z	Panama
GAA-GZZ	Great Britain & Northern Ireland			5LA-5MZ	Liberia	H4A-H4Z	Solomon Islands
		UAA-UIZ	Russian Federation	5NA-5OZ	Nigeria	H6A-H7Z	Nicaragua
HAA-HAZ	Hungary	UJA-UMZ	Uzbekistan	5PA-5QZ	Denmark	H8A-H9Z	Panama
HBA-HBZ	Switzerland	UNA-UOZ	Russian Federation	5RA-5SZ	Madagascar		
HCA-HDZ	Ecuador	URA-UTZ	Ukraine	5TA-5TZ	Mauritania	J2A-J2Z	Djibouti
HEA-HEZ	Switzerland	UUA-UZZ	Ukraine	5UA-5UZ	Niger	J3A-J3Z	Grenada
HFA-HFZ	Poland			5VA-5VZ	Togo	J4A-J4Z	Greece
HGA-HGZ	Hungary	VAA-VGZ	Canada	5WA-5WZ	Western Samoa	J5A-J5Z	Guinea-Bissau
HHA-HHZ	Haiti	VHA-VNZ	Australia	5XA-5XZ	Uganda	J6A-J6Z	Saint Lucia
HIA-HIZ	Dominican Republic	VOA-VOZ	Canada	5YA-5ZZ	Kenya	J7A-J7Z	Dominica
HJA-HKZ	Colombia	VPA-VSZ	Great Britain & Northern Ireland			J8A-J8Z	St. Vincent and the Grenadines
HLA-HLZ	South Korea	VTA-VWZ	India	6AA-6BZ	Egypt		
HMA-HMZ	North Korea	VXA-VYZ	Canada	6CA-6CZ	Syria	L2A-L9Z	Argentina
HNA-HNZ	Iraq	VZA-VZZ	Australia	6DA-6JZ	Mexico	P2A-P2Z	Papua New Guinea
HOA-HPZ	Panama			6KA-6NZ	South Korea	P3A-P3Z	Cyprus
HQA-HRZ	Honduras	WAA-WZZ	United States of America	6OA-6OZ	Somalia	P4A-P4Z	Aruba
HSA-HSZ	Thailand	XAA-XIZ	Mexico	6PA-6SZ	Pakistan	P5A-P9Z	North Korea
HTA-HTZ	Nicaragua	XJA-XOZ	Canada	6TA-6UZ	Sudan		
HUA-HUZ	El Salvador	XPA-XPZ	Denmark	6VA-6WZ	Senegal	S2A-S3Z	Bangladesh
HVA-HVZ	Vatican City	XQA-XRZ	Chile	6XA-6XZ	Madagascar	S5A-S5Z	Slovenia
HWA-HYZ	France	XSA-XSZ	China	6YA-6YZ	Jamaica	S6A-S6Z	Singapore
HZA-HZZ	Saudi Arabia	XTA-XTZ	Burkina-Faso	6ZA-6ZZ	Liberia	S7A-S7Z	Seychelles
		XUA-XUZ	Cambodia			S9A-S9Z	Sao Tome and Principe
IAA-IZZ	Italy	XVA-XVZ	Viet Nam	7AA-7IZ	Indonesia		
JAA-JSZ	Japan	XWA-XWZ	Laos	7JA-7NZ	Japan	T2A-T2Z	Tuvalu
JTA-JVZ	Mongolia	XXA-XXZ	Portugal	7OA-7OZ	Malawi	T3A-T3Z	Kiribati
JWA-JXZ	Norway	XYA-XZZ	Myanmar	7RA-7RZ	Algeria	T4A-T4Z	Cuba
JYA-JYZ	Jordan			7SA-7SZ	Sweden	T5A-T5Z	Somalia
JZA-JZZ	Indonesia	YAA-YAZ	Afghanistan	7TA-7TZ	Algeria	T6A-T6Z	Afghanistan
		YBA-YHZ	Indonesia	7ZA-7ZZ	Saudi Arabia	T7A-T7Z	San Marino
KAA-KZZ	United States of America	YIA-YIZ	Iraq			T9A-T9Z	Bosnia and Herzegovina
		YJA-YJZ	Vanuatu	8AA-8IZ	Indonesia		
LAA-LNZ	Norway	YKA-YKZ	Syria	8JA-8NZ	Japan	V2A-V2Z	Antigua and Barbuda
LOA-LWZ	Argentina	YLA-YLZ	Latvia	8OA-8OZ	Botswana	V3A-V3Z	Belize
LXA-LXZ	Luxembourg	YMA-YMZ	Turkey	8PA-8PZ	Barbados	V4A-V4Z	St. Kitts and Nevis
LYA-LYZ	Lithuania	YNA-YNZ	Nicaragua	8QA-8QZ	Maldives	V5A-V5Z	Namibia
LZA-LZZ	Bulgaria	YOA-YRZ	Romania	8RA-8RZ	Guyana	V6A-V6Z	Micronesia
		YSA-YSZ	El Salvador	8SA-8SZ	Sweden	V7A-V7Z	Marshall Islands
MAA-MZZ	Great Britain & Northern Ireland	YTA-YUZ	Yugoslavia	8TA-8YZ	India	V8A-V8Z	Brunei
		YVA-YYZ	Venezuela	8ZA-8ZZ	Saudi Arabia		
NAA-NZZ	United States of America	YZA-YZZ	Yugoslavia			Y2A-Y9Z	Germany
		ZAA-ZAZ	Albania	9AA-9AZ	Croatia		
OAA-OCZ	Peru	ZBA-ZJZ	Great Britain & Northern Ireland	9BA-9DZ	Iran	Z2A-Z2Z	Zimbabwe
ODA-ODZ	Lebanon	ZKA-ZMZ	New Zealand	9EA-9FZ	Ethiopia	Z3A-Z3Z	Macedonia
OEA-OEZ	Austria	ZNA-ZOZ	Great Britain & Northern Ireland	9GA-9GZ	Ghana		
OFA-OJZ	Finland						
OKA-OLZ	Czech Republic						

CENSUS OF AMATEUR RADIO LICENSES* in the U.S.A.

by classes, within states and call areas

Call Area	State	Novice	Technician	Plus	General	Advanced	Extra	Club	Military	State Totals	Percent of Licenses
1	CT	1,666	2,533	532	1,900	1,513	1,071	70	2	9,287	1.34
	MA	2,270	4,653	927	3,288	2,693	1,998	106	4	15,939	2.30
	ME	559	1,225	321	1,013	681	483	20	1	4,303	.62
	NH	583	1,503	331	964	707	626	21	1	4,736	.68
	RI	420	773	168	535	361	324	26	1	2,608	.38
	VT	231	749	135	433	325	242	19		2,134	.31
		5,729	11,436	2,414	8,133	6,280	4,744	262	9	39,007	5.64
2	GU	167	201	31	56	46	46	1		548	.08
	NJ	2,625	5,204	1,057	3,475	3,120	2,098	168	7	17,754	2.57
	NY	6,875	11,248	2,195	6,766	5,692	3,732	224	5	36,737	5.31
	VI	44	106	16	82	56	49	2		355	.05
	AE	120	183	39	110	84	40			576	.08
		9,831	16,942	3,338	10,489	8,998	5,965	395	12	55,970	8.09
3	DC	85	122	18	132	93	82	1	4	537	.08
	DE	209	453	86	286	226	195	6	1	1,462	.21
	MD	1,485	3,769	635	2,262	2,248	1,477	71	8	11,955	1.73
	PA	3,629	7,740	1,590	5,100	4,439	2,990	149	12	25,649	3.71
		5,408	12,084	2,329	7,780	7,006	4,744	227	25	39,603	5.72
4	AL	1,037	4,059	563	1,739	1,650	1,079	36	2	10,165	1.47
	FL	6,794	12,046	2,306	9,114	7,566	4,146	103	4	42,079	6.08
	GA	1,500	5,116	786	2,572	2,503	1,486	54	3	14,020	2.03
	KY	1,214	3,201	508	1,444	1,184	829	35	1	8,416	1.22
	NC	2,001	6,054	1,063	3,016	2,802	1,756	58	2	16,752	2.42
	PR	4,378	2,279	464	727	574	270	4	1	8,697	1.26
	SC	694	2,107	361	1,314	1,058	649	66	2	6,251	.90
	TN	1,480	5,090	855	2,261	2,266	1,458	47	3	13,460	1.95
	VA	2,035	5,210	1,131	3,053	3,016	2,001	59	5	16,510	2.39
	AA	37	50	6	32	12	6		1	144	.02
		21,170	45,212	8,043	25,272	22,631	13,680	462	24	136,494	19.73
5	AR	620	2,546	396	1,026	1,017	716	18	1	6,340	.92
	LA	926	2,493	413	1,412	1,339	820	31	3	7,437	1.08
	MS	546	1,648	229	833	804	476	15	2	4,553	.66
	NM	387	1,863	233	871	870	572	16		4,812	.70
	OK	1,134	3,424	494	1,468	1,494	907	31	1	8,953	1.29
	TX	4,407	14,451	2,221	7,688	7,397	4,562	158	8	40,892	5.91
		8,020	26,425	3,986	13,298	12,921	8,053	269	15	72,987	10.55
6	CA	16,914	41,334	6,062	16,344	15,494	8,369	492	14	105,023	15.18
	HI	696	1,100	170	567	508	304	28	3	3,376	.49
	AP	120	164	29	78	43	43	2	7	486	.07
	FM	1								1	.00
	MP	8	42	5	17	21	29	1		123	.02
	PW					1			1	2	.00
	TT	1			1	1	5			8	.00
		17,740	42,640	6,266	17,007	16,068	8,750	523	25	109,019	15.76
7	AK	443	1,034	142	627	516	321	10	6	3,099	.45
	AZ	1,246	5,534	861	2,629	2,442	1,446	39	1	14,198	2.05
	ID	411	1,357	233	721	580	321	14		3,637	.53
	MT	367	907	168	575	443	292	17		2,769	.40
	NV	368	1,442	221	813	656	389	19		3,908	.56
	OR	1,611	4,081	730	2,664	2,075	1,184	46	1	12,392	1.79
	UT	761	3,702	446	747	783	466	13	2	6,920	1.00
	WA	3,126	8,411	1,542	4,449	3,630	2,308	85	4	23,555	3.41
	WY	217	572	104	285	230	178	6		1,592	.23
		8,550	27,040	4,447	13,510	11,355	6,905	249	14	72,070	10.42
8	AS	11	38	6	11	5	11	2	84	.01	
	MI	2,624	7,172	1,250	4,242	3,586	2,152	103	1	21,130	3.05
	OH	4,103	11,557	2,070	5,544	4,834	3,046	175	1	31,330	4.53
	WV	869	2,421	432	935	738	556	22	3	5,976	.86
		7,607	21,188	3,758	10,732	9,163	5,765	302	5	58,520	8.46
9	IL	3,569	7,970	1,286	4,774	4,144	2,530	151	13	24,437	3.53
	IN	2,077	5,551	919	2,743	2,373	1,454	100		15,217	2.20
	WI	1,290	3,408	558	2,177	1,830	1,126	47		10,436	1.51
		6,936	16,929	2,763	9,694	8,347	5,110	298	13	50,090	7.24
10	CO	1,325	3,858	669	2,161	2,011	1,187	36		11,247	1.63
	IA	1,074	1,939	358	1,472	1,396	712	43	2	6,996	1.01
	KS	1,043	2,545	436	1,587	1,122	726	47	1	7,507	1.09
	MN	1,301	3,315	624	2,299	1,960	1,138	62		10,699	1.55
	MO	1,544	3,997	727	2,635	2,240	1,342	63	1	12,549	1.81
	ND	249	568	89	369	246	163	12		1,696	.25
	NE	492	1,190	230	963	763	389	29		4,056	.59
	SD	174	444	70	363	303	170	12		1,536	.22
		7,202	17,856	3,203	11,849	10,041	5,827	304	4	56,286	8.14
Grand Total		98,305	237,868	40,559	127,856	113,963	69,781	3,293	150	691,775	100.00
Percent of total licenses		14.21	34.39	5.86	18.48	16.47	10.09	.48	.02		

RADIO PUBLICATIONS HANDBOOKS



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ISBN 0-8230-8706-9.
\$13.95



SIMPLE, LOW-COST WIRE ANTENNAS FOR RADIO AMATEURS
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Now—another great handbook joins the famous Cubical Quad and Beam Antenna Handbooks. Provides complete instructions for building tested wire antennas from 2 through 160 meters: horizontal, vertical, multiband traps, and beam antennas. Describes a 3-band Novice dipole with only one feedline; the "folded Marconi" antenna for 40, 80, or 160 meters; "invisible" antennas for difficult locations—hidden, disguised, and disappearing antennas (the Dick Tracy Special, the CIA Special). Covers antenna tuners and baluns, and gives clear explanations of radiation resistance, impedance, radials, ground systems, and lightning protection. This is a truly practical handbook.
ISBN 0-8230-8707-7.
\$13.95



THE TRUTH ABOUT CB ANTENNAS

by William I. Orr
W6SAI and Stuart D.
Cowan W2LX
Contains everything the CB'er needs to know to buy or build, install, and adjust efficient CB antennas for strong, reliable signals. A unique "Truth Table" shows the dB gain from 10 of the most popular CB antennas. The antenna is the key to clear, reliable communication but most CB antennas do not work near peak

efficiency. Now, for the first time, this handbook gives clear informative instructions on antenna adjustment, exposes false claims about inferior antennas, and helps you make your antenna work. This handbook features exclusive and complete coverage of the "Monster Quad" beam, the "King" of CB antennas.
ISBN 0-8230-8708-5.
\$13.95



INTERFERENCE HANDBOOK

by William R. Nelson
W6FQG, edited by
William I. Orr W6SAI
This timely book covers every radio frequency interference (RFI) problem, with solutions based on years of practical experience. Covers amateur radio, CB radio, mobile, telephone, power line, CATV, and computer problems with proven solutions. This useful handbook contains case histories and valuable tips for stereo and TV owners to cure interference.
ISBN 0-8230-8709-3.
\$13.95

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ALL ABOUT VERTICAL ANTENNAS

by William I. Orr
W6SAI and Stuart D.
Cowan W2LX
Properly designed, built, and installed vertical antennas do a fine job in small places. This clear, well-illustrated book covers the design, construction, installation, and operation of 52 vertical antennas: efficient Marconi antennas for 80 and 160 meters, multiband verticals, vertical loops, phased arrays, and shunt-fed towers. Also described are "radio" and electrical grounds, matching systems, tuners, loading coils, and TVI, plus the precautions necessary to protect yourself, your home, and your equipment from lightning damage... and much more! It's the most practical and authoritative vertical handbook in print.
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CENSUS OF AMATEUR RADIO LICENSES OF THE WORLD*

Prefix	Country	Number of Radio Amateur Licenses Listed	Prefix	Country	Number of Radio Amateur Licenses Listed	Prefix	Country	Number of Radio Amateur Licenses Listed
AP	PAKISTAN	129	J3	GRENADA, WINDWARD ISLANDS	71	XU	CAMBODIA	9
AY-AZ	ARGENTINA	24	J5	GUINEA BISSAU	7	XV	VIETNAM	5
A2	BOTSWANA	48	J6	ST. LUCIA, WINDWARD ISLANDS	182	XW	LAOS	5
A3	TONGA	97	J7	DOMINICA, WINDWARD ISLANDS	112	XX	MACAO	2
A4	OMAN	100	J8	ST. VINCENT, WINDWARD ISLANDS	61	XY,XZ	MYANMAR	42
A5	BHUTAN	5						
A6	UNITED ARAB	8	LA-LN	NORWAY	5886	YB-YH	INDONESIA	10886
A7	QATAR	51	LO-LW	ARGENTINA	33206	YI	IRAQ	44
A9	BAHRAIN	44	LX	LUXEMBOURG	528	YJ	VANUATU	36
			LY	LITHUANIA	1214	YK	SYRIA	14
			LZ	BULGARIA	1741	YL	LATVIA	535
BA-BZ	CHINA	139				YN	NICARAGUA	203
BV	TAIWAN	611				YO-YR	ROMANIA	3805
CA-CE	CHILE	7111	OA-OC	PERU	2165	YS	EL SALVADOR	417
CM, CO	CUBA	1481	OD	LEBANON	217	YT,YU,YZ	YUGOSLAVIA	2472
CN	MOROCCO	225	OE	AUSTRIA	7185	YV-YY	VENEZUELA	20771
CO	BOLIVIA	1496	OF-OI	FINLAND	5072	YV<	AVES IS., VENEZUELA	4
CO-CU	PORTUGAL	3117	OH<	ALAND IS., FINLAND	52			
CS3, CT3	MADEIRA IS., PORTUGAL	53	OK-OL	CZECH REPUBLIC	4314	ZA	ALBANIA	51
CU	AZORES IS., PORTUGAL	491	OM	SLOVAK REPUBLIC	1544	ZB2	GIBRALTAR	55
CV-CX	URUGUAY	3540	ON-OT	BELGIUM	5179	ZC4	CYPRUS	24
C2	NAURU	23	OX	GREENLAND	102	ZD7	ST. HELENA IS.	19
C3	ANDORRA	183	OY	FAEROES	116	ZD8	ASCENSION IS.	49
C5	THE GAMBIA	20	OZ	DENMARK	9777	ZD9	TRISTAN DA CUNHA ISLAND	13
C6	BAHAMA IS.	71				ZD9	GOUGH ISLAND	1
C8, C9	MOZAMBIQUE	6	PA-PI	NETHERLANDS	14986	ZF	CAYMAN IS.	156
			PJ	CURACAO, NETHERLANDS ANTILLES	62	ZK1	COOK ISLANDS, NEW ZEALAND	84
DA-DP	FEDERAL REPUBLIC OF GERMANY	76733	PJ	BOINAIRE, NETHERLANDS ANTILLES	2	ZK2	NIUE ISLAND, NEW ZEALAND	17
DU-DZ	PHILIPPINES	4156	PJ	SABANA, NETHERLANDS ANTILLES	1	ZK3	TOKELAU ISLAND, NEW ZEALAND	4
D2, D3	ANGOLA	4	PJ	SINT MAARTEN, NETHERLANDS ANTILLES	28	ZL ZM	NEW ZEALAND	6390
D4	CAPE VERDE	6	PP-PY	BRAZIL	27642	ZP	PARAGUAY	1374
D6	COMOROS	30	PP<-PY<	FERNANDO DE NORONHA IS., BRAZIL	36	ZR-ZU	REPUBLIC OF SOUTH AFRICA	5474
			PP<-PY<	TRINDADE & MARTIM VAZ IS., BRAZIL	24	ZX,ZY	BRAZIL	50
EA-EH	SPAIN	42909	PP<-PY<	ST PETER & ST PAUL ROCKS	24	ZZ	ZIMBABWE	201
EA6-EH6	BALEARIC	1166	PZ	SURINAME	98			
EA8-EH8	CANARY	2999	P2	PAPUA NEW GUINEA	238	2E	ENGLAND, U.K.	12
EA9-EH9	CEUTA & MELILLA, SPAIN	633	P4	ARUBA	118	2M	SCOTLAND, U.K.	62
EI,EJ	IRELAND	2329						
EJ	ARAN IS., IRELAND	9	R, U	RUSSIA	29343	3A	MONACO	69
EK	ARMENIA	5				3B6	AGALEGA IS.	4
EL	LIBERIA	147	SA-SM	SWEDEN	12841	3B7	ST. BRANDON IS.	4
EM-EO	UKRAINE	5	SN-SR	POLAND	9684	3B8	MAURITIUS IS.	45
EP-EQ	IRAN	30	ST	SUDAN	6	3B9	RODRIGUEZ IS.	6
ER	MOLDOVA	7	SU	EGYPT	46	3C	EQUATORIAL GUINEA	10
ES	ESTONIA	735	SV-SZ	GREECE	2545	3DA	SWAZILAND	15
ET	ETHIOPIA	3	S2	BANGLADESH	6	3D2	FIJI IS.	111
EU-EW	BELARUS	59	S5	SLOVENIA	4856	3V	TUNISIA	5
EX	KYRGYZSTAN	3	S7	SEYCHELLES	33	3W	VIETNAM	3
EY	TAJIKISTAN	64	S8	TRANSKEI	10			
EZ	TURKMENISTAN	51	S9	SAO TOME & PRINCIPE	7	4F	PHILIPPINES	33
						4J,4K	AZERBAIJAN	26
F	FRANCE	23703	TA-TC	TURKEY	588	4L	GEORGIA	14
FG	GUADELOUPE	119	TE, TI	COSTA RICA	1502	4M	VENEZUELA	5
FH	MAYOTTE	11	Ti9	COCOS IS., COSTA RICA	15	4N4, 404	BOSNIA	22
FJ	ST. BARTHELEMY	6	TF	ICELAND	137	4S	SRI LANKA	224
FK	NEW CALEDONIA	138	TD,TG	GUATEMALA	562	4U	UNITED NATIONS	2
FM	MARTINIQUE	120	TJ	CAMEROON	23	4U	UNITED NATIONS	2
FO	FRENCH POLYNESIA	165	TK	CORSICA	166	4X, 4Z	ISRAEL	1277
FP	ST. PIERRE & MIQUELON IS.	16	TL	CENTRAL AFRICAN	28			
FR	REUNION IS.	111	TN	CONGO	9	5A	LIBYA	2
FJ, FS	SAINT MARTIN	3	TP	COUNCIL OF EUROPE	2	5B	CYPRUS	673
FY	FRENCH GUIANA	135	TR	GABON	39	5H1	ZANZIBAR, TANZANIA	1
			TT	CHAD	7	5H-5I	TANZANIA	29
G, GX	ENGLAND	60107	TU	IVORY COAST	365	5N, 5O	NIGERIA	461
GD, GT	ISLE OF MAN	184	TV-TX	FRANCE	1	5R, 5S	MADAGASCAR	7
GH	JERSEY	1	TY	BENIN	9	5T	MAURITANIA	16
GI, GN	NORTHERN IRELAND, U.K.	1399	TZ	MALI	17	5U	NIGER	18
GJ	JERSEY	99	T2	TUVALU	24	5V	TOGO	12
GM, GS	SCOTLAND, U.K.	3482	T3	KIRIBATI	100	5W	WESTERN SAMOA	159
GU, GP	GUERNSEY	119	T5	SOMALI REPUBLIC	4	5X	UGANDA	7
GW, GC	WALES, U.K.	3406	T7	REPUBLIC OF SAN	76	5Y, 5Z	KENYA	170
			T9	BOSNIA & HERZEGOVINA	305			
HA, HG	HUNGARY	5095	UR-UZ	UKRAINE	138	6T, 6U	SUDAN	4
HB	SWITZERLAND	4843				6V-6W	SENEGAL	163
HB<	LIECHTENSTEIN	20				6Y	JAMAICA	194
HC, HD	ECUADOR	1944	VE	CANADA	42409			
HC8, HD8	GALAPAGOS IS., ECUADOR	38	VK	AUSTRALIA	24376	7J-7N	JAPAN	500
HH	HAITI	124	VO1	NEWFOUNDLAND, CANADA	987	7P	LESOTHO	29
HI	DOMINICAN REPUBLIC	1967	VO2	LABRADOR, CANADA	109	7Q	MALAWI	25
HJ-HK	COLOMBIA	8152	VP2E	ANGUILLA, LEEWARD IS.	44	7T-7Y	ALGERIA	75
HJ<-HK<	SAN ANDRES & PROVIDENCIA	117	VP2M	MONTserrat, LEEWARD IS.	141	7Z	SAUDI ARABIA	2
HL	SOUTH KOREA	5940	VP2V	BRITISH VIRGIN IS., LEEWARD IS.	51			
HO-HP	PANAMA	1889	VP5	TURKS & CAICOS ISLANDS	34	8J-8N	JAPANESE SPECIAL STATIONS	43
HO-HR	HONDURAS	281	VP8	FALKLAND & BRITISH S. ATLANTIC IS.	801	8P	BARBADOS	276
HS	THAILAND	476	VP9	BERMUDA	154	8Q	MALDIVES IS.	49
HU	EL SALVADOR	1	VO9	CHAGOS ARCHIPELAGO	40	8R	GUYANA	46
HV	VATICAN CITY	4	VR6	PITCAIRN IS.	12			
HZ	SAUDI ARABIA	10	VR2, VS6	HONG KONG	346	9A	CROATIA	4642
H4	SOLOMON IS.	22	VU	INDIA	5525	9F	ETHIOPIA	1
			VY1, VY5	YUKON TERRITORY, CANADA	93	9G	GHANA	210
I	ITALY	31891	VY2	PRINCE EDWARD IS., CANADA	220	9H	MALTA	301
IA	TUSCAN ARCHIPELAGO, ITALY	13	V2	ANTIGUA & BARBUDA, LEEWARD IS.	53	9I, 9J	ZAMBIA	47
IC	CAPRI & ISCHIA IS., ITALY	49	V3	BELIZE	307	9K	KUWAIT	221
IM<-IS<	SARDINIA, ITALY	478	V4	ST. KITTS-NEVIS, LEEWARD IS.	66	9L	SIERRA LEONE	37
IT	SICILY, ITALY	1290	V5	NAMIBIA	87	9M2, 9M4	MALAYSIA	306
			V6	MICRONESIA	69	9M6	SABAH, MALAYSIA	61
JA-JS	JAPAN	37139	V7	MARSHALL ISLANDS	68	9M8	SARAWAK, MALAYSIA	71
JD1	OGASAWARA IS., JAPAN	264	V8	BRUNEI	81	9N	NEPAL	5
JT-JV	MONGOLIA	37				9Q-9T	ZAIRE	10
JW	SVALBARD IS., NORWAY	49	XA-XI	MEXICO	5883	9U	BURUNDI	2
JX	JAN MAYEN IS., NORWAY	29	XP	GREENLAND	1	9V	SINGAPORE	98
JY	JORDAN	185	XQ	CHILE	99	9X	RWANDA	31
J2	DJIBOUTI	43	XT	BURKINA-FASO	29	9Y, 9Z	TRINIDAD & TOBAGO	285

*From the 1996 RADIO AMATEUR CALLBOOKS.

CENSUS OF U.S. AMATEURS BY STATE AND ZIP CODE

This table, compiled from the 1996 North American Callbook, lists the current U.S. amateur radio licenses for each ZIP code prefix (the first three digits of the Zip code). Zip codes not shown have not been assigned by the U.S. Postal Service. The official two letter abbreviation is shown to the right of the state or territorial name.

ALABAMA	AL
1.47% OF U.S. AMATEUR POPULATION	
ZIP 350	879 LICENSES
351	713
352	1,309
354	349
355	304
356	976
357	567
358	1,092
359	608
360	329
361	384
362	399
363	459
364	177
365	524
366	553
367	217
368	316
369	10

ALASKA	AK
0.45% OF U.S. AMATEUR POPULATION	
ZIP 995	1,210 LICENSES
996	568
997	869
998	351
999	101

ARIZONA	AZ
2.05% OF U.S. AMATEUR POPULATION	
ZIP 850	2,761 LICENSES
852	3,561
853	2,084
854	1
855	401
856	915
857	2,257
859	236
860	471
863	848
864	627
865	35

ARKANSAS	AR
0.91% OF U.S. AMATEUR POPULATION	
ZIP 716	212 LICENSES
717	210
718	149
719	518
720	745
721	682
722	530
723	289
724	603
725	266
726	508
727	738
728	376
729	484

CALIFORNIA	CA
15.18% OF U.S. AMATEUR POPULATION	
ZIP 900	3,847 LICENSES
901	1
902	4,131
903	164
904	430
905	800
906	2,244
907	2,611
908	1,612
909	1
910	1,386
911	639
912	740
913	4,588
914	828
915	492
916	508
917	5,444
918	216
919	599
920	4,325
921	4,012
922	1,456
923	4,424
924	437
925	2,373
926	7,586
927	1,919
928	1,058
929	2
930	2,252
931	897
932	1,459
933	668
934	1,683
935	2,019
936	838
937	840
938	1
939	840
940	3,716
941	1,087
943	531
944	371

945	6,136
946	613
947	442
948	325
949	1,316
950	3,537
951	2,723
952	919
953	1,783
954	1,796
955	640
956	3,434
957	433
958	1,688
959	1,726
960	1,142
961	293

COLORADO	CO
1.63% OF U.S. AMATEUR POPULATION	
ZIP 800	1,596 LICENSES
801	1,274
802	1,585
803	622
804	706
805	1,370
806	261
807	192
808	301
809	1,480
810	509
811	122
812	285
813	171
814	186
815	316
816	271

CONNECTICUT	CT
1.34% OF U.S. AMATEUR POPULATION	
ZIP 060	1,879 LICENSES
061	646
062	420
063	861
064	2,351
065	451
066	336
067	776
068	1,361
069	208

DELAWARE	DE
0.21% OF U.S. AMATEUR POPULATION	
ZIP 197	456 LICENSES
198	466
199	540

DIST. OF COLUMBIA	DC
0.09% OF U.S. AMATEUR POPULATION	
ZIP 200	468 LICENSES
201	45
203	49
205	36

FLORIDA	FL
6.10% OF U.S. AMATEUR POPULATION	
ZIP 320	1,622 LICENSES
321	841
322	1,630
323	698
324	759
325	2,020
326	1,417
327	2,970
328	1,303
329	2,547
330	3,436
331	4,128
332	46
333	1,802
334	3,085
335	2,419
336	1,155
337	1,035
338	1,347
339	2,161
340	148
342	1,412
343	2
344	549
345	1
346	2,327
347	531
349	832

GEORGIA	GA
2.03% OF U.S. AMATEUR POPULATION	
ZIP 300	2,587 LICENSES
301	1,698
302	2,453
303	1,240
304	168
305	1,015
306	531
307	632
308	210
309	327
310	853

311	4
312	306
313	181
314	360
315	419
316	176
317	555
318	101
319	204

GUAM	GU
0.10% OF U.S. AMATEUR POPULATION	
ZIP 969	683 LICENSES

HAWAII	HI
0.50% OF U.S. AMATEUR POPULATION	
ZIP 967	2,267 LICENSES
968	1,192

IDAHO	ID
0.53% OF U.S. AMATEUR POPULATION	
ZIP 832	356 LICENSES
833	280
834	529
835	201
836	762
837	758
838	751

ILLINOIS	IL
3.53% OF U.S. AMATEUR POPULATION	
ZIP 600	4,132 LICENSES
601	3,187
602	150
603	162
604	2,252
605	1,921
606	2,280

607	27
609	243
610	723
611	552
612	514
613	380
614	399
615	624
616	455
617	522
618	730
619	236
620	815
622	946
623	366
624	395
625	513
626	375
627	325
628	646
629	567

INDIANA	IN
2.20% OF U.S. AMATEUR POPULATION	
ZIP 460	1,146 LICENSES
461	1,133
462	1,813
463	1,357
464	166
465	1,159
466	361
467	944
468	948
469	1,067
470	230
471	540
472	396
473	989
474	677
475	390
476	334
477	398
478	500
479	669

IOWA	IA
1.01% OF U.S. AMATEUR POPULATION	
ZIP 500	477 LICENSES
501	381
502	321
503	499
504	212
505	327
506	310
507	133
508	105
510	171
511	231
512	47
513	182
514	68
515	308
516	84
520	214
521	85
522	306
523	466
524	559
525	309
526	484

527	454
528	263

KANSAS	KS
1.09% OF U.S. AMATEUR POPULATION	
ZIP 660	1,061 LICENSES
661	277
662	902
664	241
665	380
666	488
667	312
668	160
669	114
670	625
671	399
672	950
673	263
674	481
675	320
676	187
677	85
678	218
679	44

KENTUCKY	KY
1.22% OF U.S. AMATEUR POPULATION	
ZIP 400	459 LICENSES
401	286
402	1,453
403	647
404	233
405	716
406	116
407	204
408	86
409	157
410	720
411	449
412	81
413	55
414	20
415	209
416	170
417	66
418	45
420	565
421	345
422	198
423	359
424	352
425	121
426	53
427	251

LOUISIANA	LA
1.08% OF U.S. AMATEUR POPULATION	
ZIP 700	1,077 LICENSES
701	583
703	303
704	758
705	657
706	328
707	641
708	831
710	391
711	636
712	567
713	310
714	355

MAINE	ME
0.62% OF U.S. AMATEUR POPULATION	
ZIP 039	148 LICENSES
040	1,030
041	253
042	459
043	308
044	549
045	225
046	391
047	250
048	166
049	523

MARYLAND	MD
1.73% OF U.S. AMATEUR POPULATION	
ZIP 206	711 LICENSES
207	1,718
208	1,751
209	742
210	1,857
211	1,100
212	1,494
214	393
215	284
216	363
217	1,007
218	334
219	182

MASSACHUSETTS	MA
2.30% OF U.S. AMATEUR POPULATION	
ZIP 010	1,146 LICENSES
011	239
012	490
013	256
014	785

015	905
016	286
017	1,684
018	1,807
019	1,293
020	1,023
021	2,710
022	27
023	784
024	125
025	424
026	798
027	1,157

MICHIGAN	MI
3.05% OF U.S. AMATEUR POPULATION	
ZIP 480	3,023 LICENSES
481	3,269
482	898
483	1,145
484	1,167
485	469
486	1,005
487	398
488	1,223
489	306
490	1,900
491	357
492	852
493	675
494	1,255
495	841
496	682
497	626
498	657
499	382

MINNESOTA	MN
1.55% OF U.S. AMATEUR POPULATION	
ZIP 550	1,004 LICENSES
551	1,654
552	2
553	1,457
554	2,253
556	62
557	524
558	386
559	808
560	513
561	150
562	274
563	476
564	322
565	378
566	274
567	162

MISSISSIPPI	MS
0.66% OF U.S. AMATEUR POPULATION	
ZIP 386	378 LICENSES
387	130
388	514
389	98
390	317
391	439
392	346
393	324
394	660
395	930
396	128
397	290

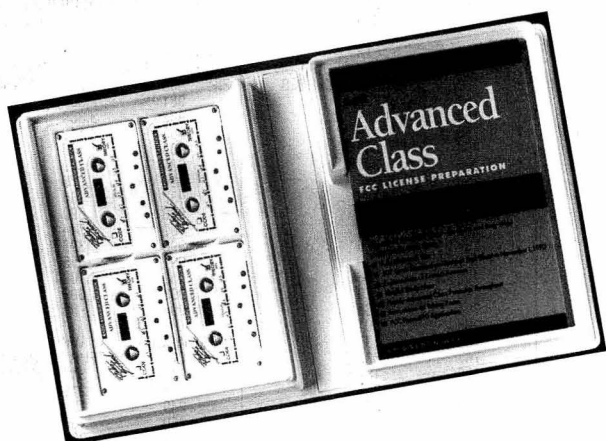
MISSOURI	MO
1.81% OF U.S. AMATEUR POPULATION	
ZIP	LICENSES
630	1,534
631	1,729
633	819
634	188
635	152
636	199
637	225
638	165
639	177
640	1,471
641	1,220
644	182
645	195
646	162
647	281
648	466
650	282
651	175
652	500
653	236
654	198
655	273
656	590
657	618
658	512

CENSUS OF U.S. AMATEURS BY STATE AND ZIP CODE

596	232	125	1,206	747	177	374	508	239	153
597	543	126	272	748	390	375	0	240	890
598	473	127	227	749	137	376	1,225	241	498
599	291	128	520			377	1,073	242	544
NEBRASKA	NE	129	478	OREGON	OR	378	1,502	243	413
0.59% OF U.S. AMATEUR POPULATION		130	1,175	1.79% OF U.S. AMATEUR POPULATION		379	1,225	244	379
ZIP 680	435	131	514	ZIP 970	2,284	380	523	245	1,071
681	997	132	570	971	1,053	381	1,607	246	198
683	176	133	461	972	2,391	382	244		
684	170	134	689	973	1,806	383	568	VIRGIN ISLAND	VI
685	702	135	175	974	2,051	384	255	0.05% OF U.S. AMATEUR POPULATION	
686	187	136	612	975	1,142	385	404	ZIP 008	359
687	299	137	495	976	506			LICENSES	
688	339	138	576	977	561	TEXAS	TX	WASHINGTON	WA
689	192	139	269	978	543	5.91% OF U.S. AMATEUR POPULATION		3.41% OF U.S. AMATEUR POPULATION	
690	80	140	1,263	979	55	ZIP 750	4,184	ZIP 980	4,877
691	266	141	596	PENNSYLVANIA	PA	751	1,290	981	2,961
692	29	142	1,014	3.71% OF U.S. AMATEUR POPULATION		752	1,961	982	3,380
693	184	143	120	ZIP 150	1,243	753	25	983	3,110
NEVADA	NV	144	958	151	843	754	746	984	1,133
0.56% OF U.S. AMATEUR POPULATION		145	1,069	152	1,378	755	341	985	1,609
ZIP 890	678	146	1,247	153	356	756	656	986	1,775
891	1,404	147	479	154	311	757	723	987	66
893	25	148	857	155	158	758	272	988	690
894	792	149	153	156	689	759	401	989	744
895	676	NORTH CAROLINA	NC	157	303	760	2,686	990	398
897	246	2.42% OF U.S. AMATEUR POPULATION		158	231	761	1,839	991	555
898	86	ZIP 270	503	159	281	762	706	992	1,102
		LICENSES		160	462	763	518	993	1,096
		271	531	161	569	764	238	994	59
		272	1,106	162	155	765	691		
NEW HAMPSHIRE	NH	273	597	163	455	766	337	WEST VIRGINIA	WV
0.68% OF U.S. AMATEUR POPULATION		274	596	164	307	767	335	0.86% OF U.S. AMATEUR POPULATION	
ZIP 030	1,742	275	1,521	165	451	768	182	ZIP 247	314
031	429	276	1,056	166	402	769	302	248	219
032	620	277	368	167	141	770	120	249	136
033	197	278	781	168	396	771	3,521	250	186
034	322	279	311	169	258	772	1,550	251	266
035	141	280	1,076	170	1,164	773	1,000	252	151
036	60	281	1,092	171	281	774	2,188	253	382
037	268	282	946	172	252	775	649	254	293
038	958	283	1,239	173	714	776	249	255	372
		284	633	174	341	777	508	256	222
NEW JERSEY	NJ	285	917	175	594	778	324	257	271
2.57% OF U.S. AMATEUR POPULATION		286	1,299	176	292	779	667	258	324
ZIP 070	2,804	287	1,696	177	331	780	480	259	171
071	294	288	360	178	458	781	2,386	260	439
072	225	289	114	179	225	782	338	261	590
073	164	NORTH DAKOTA	ND	180	956	783	541	262	293
074	1,351	0.25% OF U.S. AMATEUR POPULATION		181	312	784	711	263	331
075	170	ZIP 580	150	182	285	785	711	264	192
076	1,235	LICENSES		183	353	786	1,098	265	449
077	1,564	581	257	184	455	787	1,695	266	119
078	1,037	582	271	185	198	788	240	267	127
079	697	583	122	186	448	789	154	268	139
080	2,706	584	138	187	253	790	396		
081	251	585	328	188	304	791	367	WISCONSIN	WI
082	578	586	165	189	1,038	792	66	1.51% OF U.S. AMATEUR POPULATION	
083	525	587	211	190	2,875	793	273	ZIP 530	1,193
084	76	588	54	191	1,448	794	508	531	1,931
085	629			192	2	795	225	532	1,256
086	494	OHIO	OH	193	900	796	364	533	292
087	1,060	4.53% OF U.S. AMATEUR POPULATION		194	1,086	797	783	534	828
088	1,778	ZIP 430	1,675	195	359	798	111	535	828
089	115	LICENSES		196	336	799	964	536	593
		431	795			UTAH	UT	537	56
		432	1,470	PUERTO RICO	PR	1.0% OF U.S. AMATEUR POPULATION		538	390
NEW MEXICO	NM	433	553	1.31% OF U.S. AMATEUR POPULATION		ZIP 840	2,774	539	233
0.70% OF U.S. AMATEUR POPULATION		434	424	LICENSES		841	1,538	540	395
ZIP 870	390	435	804	ZIP 006	4,584	842	610	541	266
871	1,656	436	852	007	2,457	843	365	542	313
873	56	437	459	008	359	844	185	543	939
874	157	438	187	009	1,652	845	928	544	305
875	656	439	613			846	521	545	337
877	52	440	2,630	RHODE ISLAND	RI	847		546	650
878	109	441	2,595	0.38% OF U.S. AMATEUR POPULATION				547	407
879	57	442	1,698	ZIP 028	1,967	VERMONT	VT	548	812
880	847	443	751	029	641	0.31% OF U.S. AMATEUR POPULATION		549	
881	133	444	1,076			ZIP 050	231	WYOMING	WY
882	373	445	449	SOUTH CAROLINA	SC	051	117	0.23% OF U.S. AMATEUR POPULATION	
883	300	446	1,169	0.90% OF U.S. AMATEUR POPULATION		052	146	ZIP 820	460
884	27	447	541	ZIP 290	507	053	111	821	2
		448	842	LICENSES		054	847	822	97
NEW YORK	NY	449	343	291	544	055	1	823	69
5.31% OF U.S. AMATEUR POPULATION		450	1,668	292	428	056	294	824	127
ZIP 100	1,220	451	989	293	559	057	224	825	94
101	68	452	2,273	294	983	058	160	826	256
102	15	453	1,985	295	548	059	3	827	103
103	1,654	454	1,817	296	1,675			828	115
104	862	455	261	297	522	VIRGINIA	VA	829	178
105	1,355	456	928	298	317	2.38% OF U.S. AMATEUR POPULATION		830	37
106	112	457	462	299	168	ZIP 220	1,993	831	54
107	366	458	1,021			LICENSES			
108	122	OKLAHOMA	OK	SOUTH DAKOTA	SD	221	1,971	AP0 FPO (MILITARY)	
109	1,030	1.30% OF U.S. AMATEUR POPULATION		0.22% OF U.S. AMATEUR POPULATION		222	453	0.18% OF U.S. AMATEUR POPULATION	
110	574	ZIP 730	1,619	ZIP 570	328	223	652	ZIP 090	157
111	151	LICENSES		LICENSES		224	346	091	146
112	1,660	731	1,503	571	193	225	349	092	56
113	1,231	732	174	572	199	226	402	093	7
114	755	733	621	573	148	227	158	094	51
115	1,399	734	120	574	132	228	289	095	64
116	124	735	318	575	99	229	516	096	43
117	4,011	736	108	576	28	230	356	097	30
118	243	737	69	577	409	231	573	098	24
119	650	738				232	933	099	148
120	1,038	739		TENNESSEE	TN	233	479	962	79
121	727	740	1,391	1.95% OF U.S. AMATEUR POPULATION		234	1,060	963	183
122	301	741	1,186	ZIP 370	1,182	235	396	964	14
123	559	742	317	LICENSES		236	853	965	89
124	512	743	415	371	771	237	177	966	123
		744	229	372	697	238	363		
		745	179	373	1,675				
		746							

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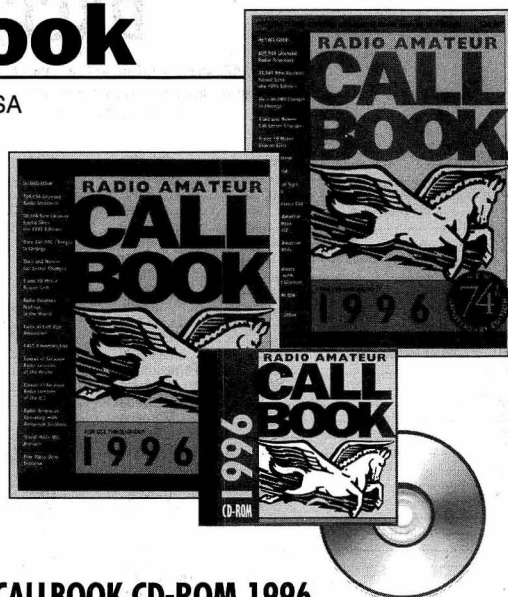
AP-AS	Pakistan	KG4	Guantanamo Bay	VU	India
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A3	Tonga	KH2	Guam	VU	Laccadive Is
A4	Oman	KH3	Johnston Is	V2	Antigua & Barbuda
A5	Bhutan	KH4	Midway Is	V3	Belize
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BY,BT	China	KH8	American Samoa	V8	Brunei
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CE9/KC4	Antarctica	KH0	Mariana Is	XA4-XI4	Revilla Gigedo
CE0	Easter Is	KL7	Alaska	XT	Burkina-Faso
CE0	Juan Fernandez Is	KP1	Navassa Is	XU	Cambodia
CE0	San Felix & San Ambrosio	KP2	Virgin Is	XW	Laos
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CN	Morocco	KP5	Desecheo Is	XY,XZ	Myanmar
CP	Bolivia	LA-LN	Norway	YA	Afghanistan
CT	Portugal	LO-LW	Argentina	YB-YH	Indonesia
CT3	Madeira Is	LX	Luxembourg	YI	Iraq
CU	Azores	LY,UP	Lithuania	YJ	Vanuatu
CV-CX	Uruguay	LZ	Bulgaria	YK	Syria
CY9	St Paul Is	OA-OC	Peru	YL,UQ	Latvia
CY0	Sable Is	OD	Lebanon	YN	Nicaragua
C2	Nauru	OE	Austria	YO-YR	Romania
C3	Andorra	OF-OI	Finland	YS	El Salvador
C5	The Gambia	OH0	Aland Is	YT,YU,YZ	Yugoslavia
C6	Bahamas	OJ0	Market Reef	YV-YY	Venezuela
C8,C9	Mozambique	OK,OL	Czech Republic	YV0	Aves Is
DA-DL,Y2-Y9	Germany	OM	Slovak Republic	ZA	Albania
DU-DZ	Philippines	ON-OT	Belgium	ZB2	Gibraltar
D2,D3	Angola	OX	Greenland	ZC4	UK Sovereign Bases on Cyprus
D4	Cape Verde	OY	Faroes	ZD7	St Helena
D6	Comoros	OZ	Denmark	ZD8	Ascension Is
EA-EH	Spain	PA-PI	Netherlands	ZD9	Tristan da Cunha & Gough Is
EA6-EH6	Balearic Is	PJ2,4,9	Bonaire, Curacao (Neth Antilles)	ZF	Cayman Is
EA8-EH8	Canary Is	PJ5-8	Sint Maarten, Saba, & Sint Eustatius Is	ZK1	North Cook Is
EA9-EH9	Ceuta & Melilla	PP-PY	Brazil	ZK1	South Cook Is
EI,EJ	Ireland	PP0-PY0	Fernando de Noronha	ZK2	Niue
EK	Armenia	PP0-PY0	St Peter & St Paul Rocks	ZK3	Tokelau Is
EL	Liberia	PP0-PY0	Trindade & Martin Vaz Is	ZL,ZM	New Zealand
EP,EQ	Iran	PZ	Surinam	ZL7	Chatham Is
ER	Moldova	P2	Papua New Guinea	ZL8	Kermadec Is
ES	Estonia	P4	Aruba	ZL9	Auckland & Campbell Is
ET	Ethiopia	SA-SM	Sweden	ZP	Paraguay
EU,EV,EW	Belarus	SN-SR	Poland	ZR-ZU	Rep of South Africa
EX	Kyrgyzstan	ST	Sudan	ZS8	Prince Edward & Marion Is
EY	Tajikistan	ST0	Southern Sudan	Z2	Zimbabwe
EZ	Turkmenistan	SU	Egypt	Z3,4N5,YU5	Macedonia
E3	Eritrea	SV-SZ	Greece	1A0	Sovereign Military Order of Malta
F	France	SV/A	Mt Athos	1S	Spratty Is
FG	Guadeloupe	SV5	Dodecanese Is	3A	Monaco
FH	Mayotte	SV9	Crete	3B6,3B7	Agalega & St Brandon Is
FJ,FS	Saint Martin	S2	Bangladesh	3B8	Mauritius Is
FK	New Caledonia	S5,YU3	Slovenia	3B9	Rodriguez Is
FM	Martinique	S7	Seychelles	3C	Equatorial Guinea
FO	Clipperton Is	S9	Sao Tome & Principe	3C0	Annobon Is
FO	French Polynesia	S0	Western Sahara	3D2	Fiji Is
FP	St Pierre & Miquelon	TA-TC	Turkey	3D2	Conway Reef
FR/G	Glorioso Is	TF	Iceland	3D2	Rotuma Is
FR/J,FR/E	Juan de Nova, Europa	TG,TD	Guatemala	3DA	Swaziland
FR	Reunion	TI,TE	Costa Rica	3V	Tunisia
FR/T	Tromelin	T9	Cocos Is	3W,XV	Vietnam
FT8W	Crozet Is	TJ	Cameroon	3X	Guinea
FT8X	Kerguelen Is	TK	Corsica	3Y	Bouvet
FT8Z	Amsterdam & St Paul Is	TL	Central African Rep	3Y	Peter I Is
FW	Wallis & Futuna Is	TR	Congo	4J,4K	Azerbaijan
FY	French Guiana	TR	Gabon	4J1,R1MV	Malay Vysotskiy Is
G,X	England	TT	Chad	4K2,UA1,R1FJ	Franz Joseph Land
GD,GT	Isle of Man	TU	Ivory Coast	4L	Georgia
GI,GN	Northern Ireland	TY	Benin	4P-4S	Sri Lanka
GJ,GH	Jersey	TZ	Mali	4U	ITU Geneva
GM,GS	Scotland	T2	Tuvalu	4U	UN Headquarters New York
GU,GP	Guernsey	T30	West Kiribati (Gilbert Is)	4X,4Z	Israel
GW,GC	Wales	T31	Central Kiribati (British Phoenix Is)	5A	Libya
HA,HG	Hungary	T32	East Kiribati (Line Is)	5B	Cyprus
HB	Switzerland	T33	Banaba Is (Ocean Is)	5H-5I	Tanzania
HBO	Liechtenstein	T5	Somalia	5N-5O	Nigeria
HC,HD	Ecuador	T7	San Marino	5R-5S	Madagascar
HC8,HD8	Galapagos Is	T9,4N4,4O4,YU4	Bosnia-Herzegovina	5T	Mauritania
HH	Haiti	UA-U11,3,4,6, RA-RZ	European Russia	5U	Niger
HI	Dominican Republic	UA2	Kaliningrad	5V	Togo
HJ,HK	Colombia	UA-U18,9,0, RA-RZ	Asiatic Russia	5W	Western Samoa
HK0	Malpelo Is	UJ,UM	Uzbekistan	5X	Uganda
HK0	San Andres & Providencia	UN,UQ	Kazakhstan	5Y-5Z	Kenya
HL	South Korea	UR-UZ,EM-EO	Ukraine	6V-6W	Senegal
HO,HP	Panama	VE,V0,VY	Canada	6Y	Jamaica
HQ,HR	Honduras	VK	Australia	70	Yemen
HS	Thailand	VK9C	Cocos-Keeling Is	7P	Lesotho
HV	Vatican	VK9L	Lord Howe Is	7Q	Malawi
HZ	Saudi Arabia	VK9M	Mellish Reef	7T-7Y	Algeria
H4	Solomon Is	VK9N	Norfolk Is	8P	Barbados
I	Italy	VK9W	Willis Is	8Q	Maldives
ISO,IMO	Sardinia	VK9X	Christmas Is	8R	Guyana
JA-JS	Japan	VK0	Heard Is	9A,YU2	Croatia
JD1	Minami-Tori-Shima	VK0	Macquarie Is	9G	Ghana
JD1	Ogasawara Is	VP2E	Anguilla	9H	Malta
JT-JV	Mongolia	VP2M	Montserrat	9I,9J	Zambia
JW	Svalbard Is	VP2V	British Virgin Is	9K	Kuwait
JX	Jan Mayen Is	VP5	Turks & Caicos Is	9L	Sierra Leone
JY	Jordan	VP8	Falkland Is	9M2,9M4	West Malaysia
J2	Djibouti	VP8,LU	South Georgia Is	9M6,9M8	East Malaysia
J3	Grenada	VP8,LU	South Orkney Is	9N	Nepal
J5	Guinea-Bissau	VP8,LU	South Sandwich Is	9Q-9T	Zaire
J6	St Lucia	VP8,LU,CE9,HF0,4K1	South Shetland Is	9U	Burundi
J7	Dominica	VP9	Bermuda Is	9V	Singapore
J8	St Vincent & Dependencies	VQ9	Chagos Is	9X	Rwanda
K,W,N,AA-AK	United States of America	VR6	Pitcairn Is	9Y-9Z	Trinidad & Tobago
KC6	(Western Caroline Is) Belau	VS6,VR2	Hong Kong		

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INTERNATIONAL "Q" SIGNALS

ABBREVIATIONS	QUESTIONS	ANSWERS OR ADVICE	ABBREVIATIONS	QUESTIONS	ANSWERS OR ADVICE
QRA	What is the name of your station?	The name of my station is...	QSY	Shall I change to transmission on another frequency?	Change to transmission on another frequency (or on...kHz (or MHz).
QRB	How far approximately are you from my station?	The approximate distance between our stations is...nautical miles (or kilometers).	QSZ	Shall I send each word or group or more than once?	Send each word or group twice (or...times)
QRD	Where are you bound and where are you from?	I am bound for...from...	QTA	Shall I cancel telegram number... as if it had not been sent?	Cancel telegram number...as if it had not been sent.
QRG	Will you tell me my exact frequency (or that of...)?	Your exact frequency (or that of...) is kHz (or MHz).	QTB	Do you agree with my counting of words?	I do not agree with your counting of words. I will repeat the first letter or digit of each word or group.
QRH	Does my frequency vary?	Your frequency varies.	QTC	How many telegrams have you to send?	I have...telegrams for you (or for...).
QRI	How is the tone of my transmission?	The tone of your transmission is 1. Good 2. Variable 3. Bad	QTE	What is my TRUE bearing from you?	Your TRUE bearing from me is...degrees (at...hours).
QRK	What is the readability of my signals (or those of...)?	The readability of your signals (or those of...)is... 1. Unreadable. 2. Readable now and then. 3. Readable, but with difficulty. 4. Readable. 5. Perfectly readable.		or What is my TRUE bearing from... (call sign)?	Or Your TRUE bearing from...(call sign) was...degrees (at...hours).
QRL	Are you busy?	I am busy (or I am busy with...). Please do not interfere.		or What is the TRUE bearing of... (call sign) from...(call sign)?	Or The TRUE bearing of...(call sign) from (call sign) was...degrees (at...hours).
QRM	Are you being interfered with?	I am being interfered with.	QTG	Will you send two dashes of ten seconds each followed by your call sign (repeated...times) [on...kHz (or MHz)]?	I am going to send two dashes of ten seconds each followed by my call sign (repeated...times)[on...kHz (or MHz)].
QRN	Are you troubled by static?	I am troubled by static.		or Will you request...to send two dashes of ten seconds followed by his call sign (repeated...times) on...kHz (or MHz)]?	or I have requested...to send two dashes of ten seconds followed by his call sign (repeated...times) on...kHz (or MHz)].
QRO	Shall I increase power?	Increase power.	QTH	What is your position in latitude and longitude (or according to any other indication)?	My position is...latitude...longitude (or according to any other indication).
QRP	Shall I decrease power?	Decrease power.	QTI	What is your TRUE track?	My TRUE track is...degrees.
QRQ	Shall I send faster?	Send faster (...words per minute).	QTJ	What is your speed?	My speed is...knots (or kilometers per hour).
QRR	Are you ready for automatic operation?	I am ready for automatic operation. Send at...words per minute.	QTL	What is your TRUE heading?	My TRUE heading is...degrees.
QRS	Shall I send more slowly?	Send more slowly (...words per minute).	QTN	At what time did you depart from...(place)?	I departed from...(place) at...hours.
QRT	Shall I stop sending?	Stop sending.	QTO	Have you left dock (or port)?	I have left dock (or port).
QRU	Have you anything for me?	I have nothing for you.		or Are you airborne?	or I am airborne.
QRV	Are you ready?	I am ready.	QTP	Are you going to enter dock (or port)?	I am going to enter dock (or port).
QRW	Shall I inform...that you are calling him on...kHz (or MHz)?	Please inform ...that I am calling him on...kHz (or MHz).		or Are you going to alight (or land)?	or I am going to alight (or land).
QRX	When will you call me again?	I will call you again at...hours [on...kHz (or MHz)].	QTK	Can you communicate with my station by means of the International Code of Signals?	I am going to communicate with your station by means of the International Code of Signals.
QRY	What is my turn?	Your turn is Number...(relates to communication.)	QTR	What is the correct time?	The correct time is...hours.
QRZ	Who is calling me?	You are being called by...[on...kHz (or MHz)].	QTS	Will you send your call sign for minute(s) now (or at...hours) [on...kHz (or MHz)] so that your frequency may be measured?	I will send my call sign for minute(s) now (or at...hours) [on...kHz (or MHz)] so that my frequency may be measured.
QSA	What is the strength of my signals (or those of...)?	The strength of your signals (or those of...)is 1. Scarcely perceptible. 2. Weak. 3. Fairly good. 4. Good. 5. Very Good.	QTU	What are the hours during which your station is open?	My station is open from...to...hours.
QSB	Are my signals fading?	Your signals are fading.	QTV	Shall I stand guard for you on the frequency of...kHz (or MHz) (from...to...hours)?	Stand guard for me on the frequency of...kHz (or MHz) (from...to...hours).
QSD	Is my keying defective?	Your keying is defective.	QTX	Will you keep your station open for further communication with me until further notice (or until...hours)?	I will keep my station open for further communication with you until further notice (or until...hours).
QSG	Shall I send...telegrams at a time?	Send...telegrams at a time.	QUA	Have you news of...(call sign)?	Here is news of...(call sign).
QSJ	What is the charge to be collected per word to...including your internal telegraph charge?	The charge to be collected per word to...including my internal telegraph charge is...francs.	QUB	Can you give me, in the following order, information concerning: visibility, height of clouds, direction and velocity of ground wind at...(place of observation)?	Here is the information requested...
QSK	Can you hear me between your signals?	I can hear you between my signals.	QUC	What is the number (or other indication) of the last message you received from me [or from...(call sign)]?	The number (or other indication) of the last message I received from you [or from...(call sign)] is...
QSL	Can you acknowledge receipt?	I am acknowledging receipt.	QUD	Have you received the urgency signal sent by...(call sign of mobile station) at...hours?	I have received the urgency signal sent by...(call sign of mobile station) at...hours.
QSM	Shall I repeat the last telegram which I send you, or some previous telegram?	Repeat the last telegram which you sent me [or telegram(s) number(s)]...	QUF	Have you received the distress signal sent by...(call sign of mobile station)?	I have received the distress signal sent by...(call sign of mobile station) at...hours.
QSN	Did you hear me [or...(call sign)] on...kHz (or MHz)?	I did hear you [or...(call sign)] on...kHz (or MHz)?	QUG	Will you be forced to alight (or land)?	I am forced to alight (or land) immediately.
QSO	Can you communicate with...direct or by relay?	I can communicate with...direct (or by relay through...).		or I shall be forced to alight (or land) at...(position or place).	
QSP	Will you relay to...free of charge?	I will relay to...free of charge.	QUH	Will you give me the present barometric pressure at sea level?	The present barometric pressure at sea level is...(units).
QSQ	Have you a doctor on board [or is... (name of person) on board]?	I have a doctor on board [or (name of person) is on board].			
QSU	Shall I send or reply on this frequency [or on...kHz (or MHz)] (with emissions of class...)?	Send or reply on this frequency [or on...kHz (or MHz)] with emissions of class...).			
QSV	Shall I send a series of V's on this frequency [or...kHz (or MHz)]?	Send a series of V's on this frequency [or...kHz (or MHz)].			
QSW	Will you send on this frequency [or on...kHz (or MHz)] (with emissions of class...)?	I am going to send on this frequency [or on...kHz (or MHz)] (with emissions of class...).			
QSX	Will you listen to...(call sign(s)) on...kHz (or MHz)?	I am listening to [call sign(s)] on...kHz (or MHz).			

QSL BUREAUS

A,K,N,W	First Call Area: All calls* W1 QSL Bureau Y.C.C.C. P.O. Box 80216 Springfield, MA 01138-0216	A4	Royal Omani Amateur Radio Society, Box 981, Muscat, Oman	HS-E2	RAST QSL Bureau, GPO Box 2008, Bangkok, 10501 Thailand
	Second Call Area: All calls* AARL 2nd District QSL Bureau N.J.D.X.A. P.O. Box 599 Morris Plains, NJ 07950	A7	Qatar Amateur Radio Society, Box 22122, Doha, Qatar	H4	SIRS, Box 418, Honiara, Solomon Islands
	Third Call Area: All calls C-CARS, P.O. Box 448 New Kingstown, PA 17072-0448	A9	ARAB QSL Bureau, Box 22381, Muharraq, Bahrain	I	ARI Via Scarlatti 31, I-20124 Milano, Italy
	Fourth Call Area, All Single Letter Prefixes: Mecklenburg A.R.S. Box DX, Charlotte, NC 28220, USA	BA-BZ	Chinese Radio Sports Association, Box 6106, Beijing, 100061 China	JA-JS,7J-7N, 8J-8N	JARL, 1-14-5 Sugamo, Toshima, Tokyo, 170 Japan
	Fourth Call Area, All Two Letter Prefixes Sterling Park Amateur Radio Club, Call Box 599, Sterling Park, VA 20167, USA	BV	Chinese Taipei Amateur Radio League, Box 73, Taipei 100, Taiwan	JT-JV	Mongolian Radio Sports Federation, Box 639, Ulaan Baatar 13, Mongolia
	Fifth Call Area: All Calls ARRL W5 Incoming QSL Bureau, P.O. Box 50625 Midland, TX 79710	CA-CE,XQ-XR	Radio Club of Chile, Box 13630, Santiago 21, Chile	JY	Royal Jordanian Radio Amateur Society, Box 2353, Amman, Jordan
	Sixth Call Area, All Calls: Sixth (6th) District DX QSL Bureau Box 1460, Sun Valley CA 91352, USA	CM,CO,T4	Federacion de Radioaficionados de Cuba Box 1, Habana 10100, Cuba	J2	Association des Radioamateurs de Djibouti, Box 1076, Djibouti
	Seventh Call Area, All Calls: Williamette Valley DX Club Inc., Box 555, Portland, OR 97207, USA	CN	ARRAM, Box 299, Rabat, Morocco	J3	Grenada Amateur Radio Club, Box 737, St. George's, Grenada
	Eighth Call Area, All Calls: QSL Bureau, Box 182165, Columbus, OH 43218, USA	CP	Radio Club Boliviano, Box 2800, Cochabamba, Bolivia	J7	Dominica Amateur Radio Club, Box 389, Roseau, Dominica
	Ninth Call Area, All Calls: Northern Illinois DX Assoc., Box 519, Elmhurst, IL 60126, USA	CQ-CU	Rede dos Emissores Portugueses, Rua D. Pedro V 7-4, P-1200 Lisboa, Portugal	LA-LN,JW-JX, 3Y	Norsk Radio Relae Liga, Box 21, Refstad, N-0513 Oslo 5, Norway
	Zero Call Area: All Calls W0 QSL Bureau, P.O. Box 4798 Overland Park, KS 66204	CV-CX	Radio Club Uruguayo, Box 37, Montevideo, 11000 Uruguay	LO-LW,AY-AZ, L2-L9	Radio Club Argentina, Box 97, Correo Central, 1000 Buenos Aires, CF, Argentina
	Puerto Rico, All Calls: KP4 QSL Bureau, Box 1061 San Juan, Puerto Rico 00902, USA	C3	Unio de Radioaficionats Andorrans, Box 150, La Vella, Andorra	LX	c/o A. Rischette, LX1AR, 25 Rue A. Munchen, L-2172 Luxembourg
	U.S. Virgin Islands, All Calls: Virgin Islands Amateur Radio Club, GPO Box 11360, Charlotte Amalie, Virgin Islands 00801, USA	C5	Radio Society of The Gambia, c/o J.-M. Voinot, PMB 120, Banjul, Gambia	LY	Lietuvos Radijo Megeju Draugija,Box 1000, 2001 Vilnius, Lithuania
	Hawaiian Islands, All Calls: QSL Bureau, Box 788 Wahiawa, HI 96786, USA	C6	Bahamas Amateur Radio Society, Box SS-6004, Nassau, Bahamas	LZ	Bulgarian Federation of Radio Amateurs, Box 830, 1000 Sofia, Bulgaria
	Alaska, All Calls: Alaska QSL Bureau, 4304 Garfield St. Anchorage, AK 99503, USA	C8-C9	Liga dos Radio Emissores de Mocambique, Box 25, Maputo, Mozambique	OA-OC,4T	Radio Club of Peru Box 538, Lima 100, Peru
	Guam MARC Box 445, Agana, Guam 96910	DA-DR	Deutscher Amateur Radio Club, Box 1155, D-34216 Baunatal, Germany	OD	Association des Radio-Amateurs Libanais, Box 11-8888, Beirut, Lebanon
	SWL - No Outgoing Service Mike Witkowski, WDX9JFT, 4206 Nebel St. Stevens Point, WI 54481	DU-DZ,4D-4I	Philippine Amateur Radio Association, Box 4083, Manila, Philippines	OE	Oesterreichischer Versuchssenderverband Theresiengasse 11, A-1180 Vienna, Austria
KA2-5**, KA7-9**	Far East Amateur Radio League c/o D. Arthur, KA8DA, or J. Arthur, KA8JA 6920 ESG, PSC, Box 2253, APO, AP 93319-2253	D2-D3	Liga dos Amadores de Radio de Angola, Angola	OF-OJ	SRAL QSL Bureau, Box 30, SF-00381 Helsinki, Finland
KA6**	Radio Club of Okinawa, Box 217, Torii Station APO, AP 96331	EA-EH,AM-AO	Union de Radioaficionados Espanoles, Box 220, E-28080 Madrid, Spain	OK-OL	Cesky Radioklub, Box 69, 11327 Praha 1, Czech Republic
KG4	Guantanamo Amateur Radio Club, Box 73, FPO, AE 09593	EI-EJ	Irish Radio Transmitters Society, Box 462, Dublin 9, Ireland	OM	Slovak Amateur Radio Association, Box 1, 85299 Bratislava 5, Slovakia
KH2	Marianas Amateur Radio Club, Box 445, Agana, GU 96910	EL,5L-5M	Liberia Radio Amateur Association, Box 10-1477, 1000 Monrovia 10, Liberia	ON-OT	UBA QSL Bureau, Box 400, B-8400 Ostend WV, Belgium
KH3	Box 73, APO, AP 96558	ES	Eesti Raadioamatööride Ühing, Box 125, EE-0090 Tallinn, Estonia	OY	FRA QSL Bureau, Box 1358, FR-110 Torshavn, Faroe Islands
KH4	U.S. Naval Air Facility, FPO, AP 96614	ET	Ethiopian Amateur Radio Society, Box 7447, Addis Ababa, Ethiopia	OU-OZ	c/o B.W. Nielsen, OZ7BW, Solbjerggatedevej 76, DK-8355 Ny Solbjerg, Denmark
KH6	Box 788, Wahiawa, HI 96786	EU-EW	Belarus Federation of Radioamateurs and Radiosportsmen Box 469, 220050 Minsk, Belarus	PA-PI	Dutch QSL Bureau, Postbus 330, NL-6800 AH Arnhem, Netherlands
KL7	4304 Garfield St., Anchorage, AK 99503	F,HW-HY,TK,TM	Reseau des Emetteurs Francais, Box 2129, F-37021 Tours Cedex, France	PJ	Vereniging voor Experimenteel Radio Onderzoek in Nederlandse Antillen, Box 3383, Curacao, Netherlands Antilles
K4,N4,W4	Mecklenburg Amateur Radio Society Box DX, Charlotte, NC 28220	FG,FJ, FM, FP, FS, FT	Cards for members only via RED QSL. BP 2129, F-37021 Tours Cedex, France	PP-PY,ZV-ZZ	Liga de Amadores Brasileiros de Radio Emissao Box 07-0004, 70.359 Brasilia DF, Brazil
KP2	Virgin Islands Amateur Radio Club Box 11360, GPO, Charlotte Amalie, VI 00801	FK	Cards for members only may be sent via ARANC, Box 3956, Noumea, New Caledonia	PZ	VRAS QSL Manager, Box 566, Paramaribo, Surinam
KP4	Radio Club de Puerto Rico, Box 1061 San Juan, Puerto Rico, 00902	FO	CORA QSL Bureau, Box 5006, Pirae, Tahiti French Polynesia	P2-P3	PNGARS QSL Bureau, Box 141, Port Moresby, Papua New Guinea
AP-AS	Pakistan Amateur Radio Society, Box 1450 Islamabad 44000, Pakistan	G,2A-2Z	UNITED KINGDOM	P4	Aruba Amateur Radio Club QSL Bureau, Box 2273, San Nicolas, Aruba
A2,80	Botswana Amateur Radio Society, Box 1873 Gaborone, Botswana	G	RSGB QSL Bureau, Box 1773, Potters Bar EN6 3EP, England, United Kingdom	R,UA-UI	Soyuz Radiolyubiteley Rossii, Box 59, Moscow 105122, Russia
A3	Amateur Radio Club of Tonga, c/o M. Schuster, Box 1078, Nuki Alofa, Tonga	GD	c/o G.W. Ripley, GD3AHV, "Corea Bungalow," Ronague Rd., Ballasalla, Isle of Man, UK	SA-SM,7S,8S	Foreningen Sveriges Sandreamatorer Ostmarksgatan 43, S-12342 Farsta, Sweden
		GI	c/o E. Barr, G17FFF, "Ed-Mar," 1 Onslow Dr., New Gransha Rd., Bangor BT19 7HQ, No. Ireland	SN-SR,HF,3Z	PZK QSL Bureau, Box 320, PL-00950 Warszawa 1, Poland
		GJ	c/o H.J. Chater, GJ2LU, 106 Rouge Bouillon, St. Helier, Jersey	ST,6T,6U	Sudan Radio Club, Box 80, El Morada, Omdurman, Republic of the Sudan
		GM	c/o G.E. Bell, GM4LKJ, 21 Saint Andrew Crescent Dumbarton G82 3ER, Scotland	SU	EAWC, QSL Bureau, c/o Wireless Officers Club Ramsis Bldg., Floor 13 Flat 10, 6 Ramsis Square, Cairo 11111, Egypt
		GU	c/o S.T. Henry, GU4GNS, The Hermitage, L'Ancrese, Vale, Guernsey	SV-SZ,J4	Radio Amateur Association of Greece, Box 3564, GR-10210 Athens, Greece
		GW	c/o K. Hudspeth, GWOARK, 67 Bloomfield Rd., Blackwood Gwent NP2 1LX, Wales	S2-S3	Bangladesh Amateur Radio League, Box 3512, GPO, Dhaka, Bangladesh
		HA,HG	MRASZ QSL Bureau, Box 214, H-1368 Budapest 5, Hungary	S5	Zveza Radioamaterjev Slovenije, Box 180, 61001 Ljubljana, Slovenia
		HB,HE	USKA QSL Service, Box 15, CH-4705 Wangen an der Aare, Switzerland	SWL	Mike Witkowski, WDX9JFT, 4206 Nebel St., Stevens Point, WI 54481
		H80	AFVL QSL Bureau, Box 27, FL-9486 Schaanwald, Liechtenstein	TA-TC,YM	Telsiz Radyo Amatorleri Cemiyeti, Box 109, Istanbul, Turkey
		HC-HD	Guayaquil Radio Club, Box 5757, Guayaquil, Ecuador	TF	Islenzkir Radioamatorar, Box 1058, IS-121 Reykjavik, Iceland
		HH,4V	Radio Club of Haiti, Box 501, Port-Au-Prince, Haiti	TG,TD	Club de Radioaficionados de Guatemala, Box 115, Guatemala City, Guatemala
		HI	Radio Club Dominicana, Box 1157, Santo Domingo, Dominicana	TE-TI	Radio Club of Costa Rica, Box 2412, San Jose 1000, Costa Rica
		HJ-HK,5J-5K	Liga Colombiana de Radioaficionados, Box 584, Bogota, Colombia		
		HL	Korean Amateur Radio League, Box 162, CPO, Seoul 100-601, Republic of Korea		
		HO-HP,H3	Liga Panamena De Radioaficionados (IARU Member), Box 175, Panama 9A, Panama or Radio Club de Panama, Box 10745, Panama 4, Panama		
		HQ-HR	Radio Club de Honduras, Box 273, San Pedro Sula, Honduras		

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QSL BUREAUS

FHW-HY,TK,MT TO-TQ	Cards for members only via REF QSL, BP 2129, F-37021 Tours Cedex, France	W5	Box 50625, Midland TX 79710	9G	Ghana Amateur Radio Society, Box 3936, Accra, Ghana
TR	Association Gabonaise des Radio-Amateurs, Box 1826, Libreville, Gabon	W6	Box 1460, Sun Valley, CA 91352	9H	Malta Amateur Radio League, Box 575, Valletta, Malta
TU	Association des Radio Amateurs Ivoiriens, 01 BP 2946, Abidjan 01, Ivory Coast	W7	Willamette Valley DX Club, Box 555, Portland, OR 97207	9I,9J	Radio Society of Zambia, Box 20332 Kitwe, Zambia
T7	Associazione Radioamatori della Repubblica di San Marino Box 77, RSM-47031 San Marino	W8	Box 182165, Columbus, OH 43218-2165	9K	Kuwait Amateur Radio Society, Box 5240, Safat 13053, Kuwait
T9	Asocijacija Radioamatera Bosne i Hercegovine (mail service suspended)	W9	Northern Illinois DX Association, Box 519, Elmhurst, IL 60126	9L	Sierra Leone ARS, Box 10, Freetown, Sierra Leone
UR-UZ,EM-EO	Ukrainian Amateur Radio League, Box 56 Kiev 252001 Ukraine	W0	Box 4798, Overland Park, KS 66204	9M	Malaysian Amateur Radio Transmitters' Society Box 10777, 50724 Kuala Lumpur, Malaysia
V3	c/o B. Leonard, V31HK, Box 168, Belmopan Belize	XY-XZ	Burma Amateur Radio Transmitting Society (closed), Myanmar	90-9T	Union Zairoise des Radio-Amateurs (closed) Zaire
V5	Namibian Amateur Radio League, Box 1100, Windhoek 9000, Namibia	XA-XI,4A-4C, 6D-6J	Federacion Mexicana de Radio Experimentadores, Box 907, 06000 Mexico D.F., Mexico	9V	Singapore Amateur Radio Transmitting Society Box 2728, GPO, Singapore 9047
V7	Kwajalein Amateur Radio Club, Box 444, APO, AP 96555, Marshall Islands, USA	YB-YE,8A-8I	ORARI QSL Bureau, Box 96, Jakarta 10002, Indonesia	9Y-9Z	Trinidad and Tobago Amateur Radio Society, Box 1167, Port of Spain, Trinidad and Tobago
V8	Negara Brunei Darussalam Amateur Radio Association, Box 73, Gadong, Bandar Seri Begawan 3100, Brunei	YI,HN	Iraqi Radio Amateur Club, Box 55072, Baghdad 12001 Iraq		The Yasme Foundation, Box 2025, Castro Valley, CA 94546, USA
VA-VG,VO, VX-VY,CF-CK, CY-CZ,XJ-XO	CANADA	YJ	Vanuatu Amateur Radio Society, Box 665, Port Villa, Vanuatu		
VE,VO,VY	Box 51, St. John, NB E2L 3X1	YK,6C	Technical Institute of Radio, Box 245, Damascus, Syria		
VE0-1,VY2	c/o J. Wade, VE1DH, Box 141, Petittcodiac, NB EOA 2H0	YN,HT	Club de Radioexperimentadores de Nicaragua, Box 925, Managua, Nicaragua		
VE2	c/o A.G. Daeman, VE2IJ, 2960 Douglas Ave., Montreal, PQ H3R 2E3	YO-YR	Federatia Romana de Radioamatorism, Box 22-50, R-71100 Bucuresti, Romania		
VE3	c/o G. Hammond, VE3XN, 5 McLaren Ave., Listowel, ON N4W 3K1	YS	Club de Radio Aficionados de El Salvador, Box 517, San Salvador, El Salvador		
VE4	c/o A. Romanchuk, VE4SN, 26 Morrison St., Winnipeg, MB R2V 3B4	YT-YU,YZ, 4N-4U	Savez Radio-Amatera Jugoslavije, Box 48, YU-11001 Beograd, Yugoslavia		
VE5	c/o B.J. Madsen, VE5FX, 739 Washington Dr., Weyburn, SK S4H 3C7	YV-YY,4M	Radio Club Venezolano, Box 2285 Caracas 1010A, Venezuela		
VE6	c/o N.F. Walther, VE6VW, Box 1890, Morinville, AB T0G 1P0	ZA	Albanian Amateur Radio Association, Box 66, Tirana, Albania		
VE7	c/o D. Livesay, VE7DK, 8309 112th St., Delta, BC V4C 4W7	ZB2	Gibraltar Amateur Radio Society, Box 292, Gibraltar		
VE8	c/o R. Ziemann, VE8RZ, 2 Taylor Rd., Yellowknife, NT X1A 2K9	ZC4	Joint Signal Board Hq., BFC, BFPO 53, London GPO, United Kingdom, British Forces Cyprus		
VO	c/o R. Peddle, VO1BD, Box 6, St. John's, NF A1C 5H5	ZD8	Ascension Amateur Radio Relay League Box 4127, Patrick AFB, FL 32925-0127, USA, Ascension Island		
VY1	c/o W. Champagne, VY1AU, Box 4597, Whitehorse, YT Y1A 2R8	ZF	Cayman Amateur Radio Society, Box 1029, Grand Cayman, Cayman Islands		
VH-VN,AX	AUSTRALIA	ZL-ZM	NZART QSL Bureau, Box 857 Wanganui 5000, New Zealand		
VK1	Box E46, Queen Victoria Terrace, ACT 2600	ZP	Radio Club Paraguayo, Casila de Correo 512, Asuncion, Paraguay		
VK2	Box 73, Teralba, NSW 2284	ZR-ZU	South African Radio League, Box 807, Houghton 2041, South Africa		
VK3	Box 757G, GPO, Melbourne, Victoria 3001	Z2	Zimbabwe Amateur Radio Society, Box 2377, Harare, Zimbabwe		
VK4	Box 638, GPO, Brisbane, QLD 4001	Z3	Association of Amateur Radio Operators of Macedonia Box 14, 91000 Skopje, Former Yugoslav Republic of Macedonia		
VK5	Box 10092, Gouger St. Adelaide, SA 5000	3A	Association des Radio-Amateurs de Monaco Box 2, MC-98001 Monaco Cedex, Monaco		
VK6	c/o J. Rumble, VK6RU, Box F319, GPO, Perth, WA 6001	3B	Mauritius Amateur Radio Society, Box 467 Port Louis, Mauritius		
VK7	Box 371D, GPO, Hobart, TAS 7001	3DA	Radio Society of Swaziland, Box 3744, Manzini, Swaziland		
VK8	c/o H.G. Andersson, VK8HA, Box 619, Humpty Doo, NT 0836	3D2	Fiji Association of Radio Amateurs, Box 184 Suva, Fiji		
VK9-0	c/o N. Penfold, VK6NE, 2 Moss Court, Kingsley, WA 6026	4P-4S	Radio Society of Sri Lanka, Box 907, Colombo, Sri Lanka		
VP2E	Anguilla Amateur Radio Society, Box DX, The Valley, Anguilla	4X,4Z	IARC QSL Bureau, Box 17600, Tel Aviv 61176 Israel		
VP2M	Montserrat Amateur Radio Society, Box 448, Plymouth, Montserrat	5B	Cyprus Amateur Radio Society, Box 1267, Limassol, Cyprus		
VP2V	British Virgin Islands Radio League Box 653, Road Town, Tortola, British Virgin Island	5N-5O	Nigerian Amateur Radio Society, Box 2873, G.P.O. Marina, Lagos, Nigeria		
VP5	Turks and Caicos Amateur Radio Society c/o J. Millspaugh, VP5JM, Box 218, Providenciales, Turks and Caicos Islands	5W	WSARC QSL Bureau, Box 1069, Apia, Western Samoa		
VP8	Falkland Islands Radio Club, Box 260 Mount Pleasant Airport, Falkland Islands	5Y-5Z	Radio Society of Kenya, Box 45681, Nairobi, Kenya		
VP9	Radio Society of Bermuda, Box HM 275, Hamilton HM AX, Bermuda	6V-6W	Association des Radio-Amateurs du Senegal, Box 971, Dakar, Senegal		
VR2,VS6	Hong Kong Amateur Radio Transmitting Society, Box 541, Hong Kong	6Y	Jamaica Amateur Radio Association, 75 Arnold Rd., Kingston 5, Jamaica		
VT-VW	Amateur Radio Society of India, Box 6538, Bombay 400026, ARSI Madras Branch, Box 6143, Madras 600017, India	7P	Lesotho Amateur Radio Society, Box 949, Maseru 100, Lesotho		
V2	Antigua and Barbuda Amateur Radio Society, Box 1111, St. John's Antigua and Barbuda	7T-7Y	Amateurs Radio Algeriens, Box 2, Alger Gare, Algeria		
V7	Kwajalein Amateur Radio Club, Box 444, APO, AP 96555, USA Marshall Islands	8P	Amateur Radio Society of Barbados, Box 814E, Bridgetown, Barbados		
W,AA-AL, K,N	USA	8R	Guyana Amateur Radio Association, Guyana		
W1	Box 80216, Springfield, MA 01138-0216	9A	Hrvatski Radio-Amaterski Savez, Box 564, HR-41000 Zagreb, Croatia		
W2	North Jersey DX Association, Box 599, Morris Plains, NJ 07950				
W3	Cumberland County Amateur Radio Service Box 448, New Kingstown, PA 17072-0448				
K4,N4,W4	Mecklenburg Amateur Radio Society Box DX, Charlotte, NC 28220				
AA-AK4,KA- KZ4,NA-NZ4, WA-WZ4	Sterling Park Amateur Radio Club Call Box 599, Sterling, VA 20167				

RADIO AMATEURS OPERATING WITH RECIPROCAL LICENSES

Foreign

A2/W6KG
A4/W6KG
A7/W6KG
BV/JPIRIW
CE0/W6KG
CE0/W6QL
CU/KB4JW
C6/WA20WL

DJ4IJI/HI8
DU/KB2GRH
DU/K4TY
DU/KZ5Z
DU/WB5LBJ

DU/KD6TB
DU/N6XRU
DU/N7ET
DU/N7GCN
DU/N7GCO
DU4/N7MUX
DW/KAT5FR
EA/K44WUM
EA/W5YZY
EA5/G0NGC

EA6/G6ZY
EA7/N5OKR
F/G2BNI

F/G0KSW
F/UWUJ
FH/JL1UXH
FH/W6KG
FR/W6KG
FR/W6QL
FS/FG5EM
FS/FG5EO
FW/FG0VG
FW/G4DZC
FW/KG7XE
FY/KD3FK
FY/N4QDX
G/KB4IYK

G/KK6DF
G/KK6EE
G/N0BZ

GW0N2ATT
HA/K6EID
HB0/HB9NL
HB9/CU2BR
HB9/NIFEY
HC/W6KG
HC/KA9SNM
HC/KA0SYR
HC/KA0TBS
HI/N9H8Q

HI/VE3LKU
HK/CE3FOT
HK/CE3JWE
HK/HB0DX
HK/KC4AN
HK/KOLWJ
HK/N4HUF
HK/SM5HV
HK/W6QL
HK/WA2ITL
HK/WA3HOV
HK/WB0DTP
HK0/W6KG
HK5/CP4XA
HK5/HJ3JZH
HK5/HJ3WBV
HK5/HJ6WVA
HK5/HK3AGA
HK5/HK3KK
HK5/HK3MOC
HK5/HK3NPE
HK5/HK4LPI
HK5/HK6BJR
HK5/HK6OQL
HK5/HK8COO
HK5/HK8NZG
HK5/HK9CCT
HK5/KB4YGO
HK5/KC4NEB
HK5/N6NVK
HP4/TI2LAK

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Foreign

HR/WB5YWU
HR/W6QL
HR2/JA6WFM
HR6/N7QXQ

HS0/DL1ZAV

HS0/DL2FDK
HS0/G4UAV

HS0/OE2ASL

HS0/OE2REL
H13/WF9T
H44/JA6SJN
JT/H47VQ
JT/OK1XC
JT/RA6LEV
JT/RB5LTK
JT/RB5LUK
JT/RB3MR
JT/RA6LEV
JT/UA3EC
JT/UL7QCI
JT1/KB9IBZ
JWL/LB6DC
JWL/LB6EC
JWL/LB6FC
J6/OE2CHN
KA1HL/VE3
OE/SP5IXI
OH/G4JVG
OH/K5HGK
PA/DF4NP
PA/DL8RH
PA/1R1YS
PA/KB1IA
PA/SM6CPI
PJ/KB4RCP
PJ/W6QL
PY/WA3MJR

PZ/W6KG
P4/N4XCF
SM/VK5CQ
SM/9M2CR
SV/W6KG
SV/W6QL
SV5/KB4PMS
SV9/SV0HW
SV0HW/SV9
S7/W6KG
S7/W6QL
S8/W6KG
S8/W6QL
TA/WDBANI
TG/KD5HA
TI/HI8AJD
TI/HI8MWD
TI/LU1JMQ
TI/W6KG
VE2/CE2JG
VE2/N4WQB
VE3/JA3PJM
VE3/OK3CAW
VE3/S52NN
VP2/W6KG
VP2E/AA1M
VP2E/JH4IFF
VP2E/KA3DBN
VP2E/KB2JXG
VP2E/KB4VHW
VP2E/KB8WC
VP2E/KD6WW
VP2E/KO80
VP2E/KT8Y
VP2E/K8BL
VP2E/NOLMD
VP2E/NR1R
VP2E/N2FBB
VP2E/N4BWS
VP2E/W2ORA
VP2E/W2PAU
V2/KA2DIV
V2/OE2CHN
W2CIH/VE3
YL/KAORYS
YS/W44IFN
YV/HI8CVR
YV/K3UOC
YV/KD4AHI

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Thomas Auth, QSL via KT8Y
Robert Liddy, QSL via K8BL
John O. Stewart, QSL via NOLMD
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RADIO AMATEURS OPERATING WITH RECIPROCAL LICENSES

Foreign

YV/K4MUP
YV/OA4AUN

YV/W8PLV
YV5/WS4E
ZB2/G4HUA
ZP/W6QL
ZP9/DL3RO
ZS/W6KG
ZS3/W6QL
Z2/W6QL
4F/KE6PU
4S/JA8DOK
4S7/JA4FM
S7/DF5UG
4S/DJ8CV
4S/DK1ZN
4S/DK2SC

4S/WB7VR
4X/W6KG
5A/G3JKI
5N/DG6GW
5N/DK9FH
5N/DK3LQ
5N/DL5KBK
5N/DL5NE
5N/EI6FM

5N/EL2AY
5N/FC1LIA
5N/FE6HCL
5N/G3GJQ
5N/G3SKX
5N/G3ZMP
5N/G4WOB
5N/G8WTR
5N/HB9CUZ
5N/HB9KC
5N/1ICSJ
5N/IK1FOS
5N/IK7EJX

5N/JG1FVZ
5N/KOLXA
5N/KAOKIA
5N/KB7ZT
5N/KC7RD
5N/LU9EAG
5N/N4NW
5N/OE1YDA
5N/OE5SYM
5N/OE5WRL
5N/OK1AEX
5N/OK1DJ0
5N/OK1ZKA
5N/ON7VD
5N/PB0ACP
5N/TU2HS
5N/TU2NL
5N/TZ6WC
5N/VY1AA
5N/W4LZZ
5N/WOPBV
5N/YU3IK
5N/YU7SC
5N/4X4FF
5N/5B4MV
5N/9G1JH
5N9/LU9EAG
6Y/KB4ZBK
6Y/KC4ADR
6Y/W3FAJ
6Y/OE2CHN
8R/H8XAD
8R/LU9CAM
8R/W1CDC
8R/N3BBT
8R/WA4YGG
8R1/DL9MEU

8R1/G4AAL
8R1/KA8AXQ
8R1/KB2LVN
8R1/PE1MIY
8R1/PE1NEF
8R1/PE1OJM

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Jason Herko, 4 Sullivan Way, Kingston 8, Jamaica
Carl M. Schwing, Box 65, Kingston 5, Jamaica
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Oscar Jose Sartorio, Box 10932, Georgetown, Guyana
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Mr. Paul Downey, 73 Section M Campbellville, Georgetown, Guyana
Ms. Catherine Taylor, Hauraruni Village, Linden Highway, Guyana
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Foreign

9M2/KA1BWF
9N/W6KG
9N/W6QL
9Y/J6LAD
9Y/OE2CHN
9Y4/JA2EZD
9Y4/KN4TX

United States

W1/G4DZC
W1/LU9DDN

W1/PU1AII
W1/PU1AKP
W1/PU1AKQ
W1/VK2JBM
W2/CE3CRA
W2/F2YS
W2/HI3JTE
W2/HI3VAR
W2/HI8CAO
W2/HK1AHR
W2/JS1DLC
W2/VK2DXI
W2/YU2WY
W2/YZ7AA
W2/4X6MQ
W3/H4C4P
W3/SM6NCT
W4/DJ3YT
W4/DJ8XU
W4/EA4DDJ
W4/HI8RFA
W4/HK3GZB
W4/HK3HJG
W4/LU4DUZ
W4/OZ7SM
W4/TF3KX
W4/Y51JCR
W4/6Y5AM
W4/PY2ZEA
W4/YS1AF
W4/4X1AD
W5/DL2HI
W5/LU3EHT
KB7TRF/DU4
KG6/OE6BVG
KH6/JL1UXH
KH6/OE2CHN
KH6/VK2DXI
W1/G4DZC
W6/CX7CB
W6/G3MHV
W6/G3NBZ
W6/JA1WZV
W6/LU4DMI
W6/LU6AND
W6/LU8EDU
W6/OE2CHN
W6/OE6BVG
W6/TG9EM
W6/TG9JH
W6/VK2KS
W6/4X6MQ
W7/DL1UF
KH8/OE2CHN
W8/JR1C00
KH0/J11RVN
KH0/OE6BVG
VE2AQS/WG
VE2IQB/W4
VE3BMV/W2
VE3EKHW5
VE3SUN/W6
VE7GDM/WO

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QSL via JG1RVN
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Peter R. Jennings, Box 336, Ben Lomond, CA 95005, USA
Doug McGill, 2508 Century Road, Omaha, NE 68123, USA

PREFIXES – BY COUNTRIES – 40 Zone

Country	CQ Zone	Prefix	Country	CQ Zone	Prefix	Country	CQ Zone	Prefix
Afghanistan	21	YA	Guyana	9	8R	Paraguay	11	ZP
Agalega & St Brandon Is	39	3B6,3B7	Hawaii	31	KH6	Peru	10	OA-OC
Aland Is	5	OH0	Haiti	8	HH	Peter I Is.	12	3Y
Alaska	1	KL7	Heard Is.	39	VK0	Philippines	27	DU-DZ
Albania	15	ZA	Honduras	7	HQ,HR	Pitcairn Is.	32	VR6
Algeria	33	7T-7Y	Hong Kong	24	VS6,VR2	Poland	15	SN-SR
Amsterdam & St Paul Is.	39	FT8Z	Hungary	15	HA,HG	Portugal	14	CT
Andaman & Nicobar Is	26	VU	Iceland	40	TF	Prince Edward Is (Canada)	5	VE1,VY2
Andorra	14	C3	India	22	VU	Prince Edward Is.	38	ZS8
Angola	36	D2,D3	Indonesia	28	YB-YH	Puerto Rico	8	KP4
Annobon Is (Pagalu)	12,13,29,30	CE9/KC4	Iran	21	EP-EQ			
Antarctica	32,38,39		Iraq	21	YI	Qatar	21	A7
Aran Is.	14	EJ0	Ireland	14	EI,EJ	Reunion Is.	39	FR
Argentina	13	LO-LW	Ischia	15	IC	Revilla Gigedo Is.	6	XA4-X14
Armenia	21	EK	Isle of Man	14	GD,GT	Rodriguez Is.	39	3B9
Aruba	9	P4	Israel	20	4X,4Z	Romania	20	YO-YR
Ascension Is.	36	ZD8	Italy	15,33	I	Rota Is.	27	KH0
Auckland & Campbell Is.	32	ZL9	ITU Geneva	14	4U	Rotuma	27	3D2
Australia	29,30	VK	Ivory Coast	35	TU	Rwanda	36	9X
Austria	15	OE	Jamaica	8	6Y	Russia, Asiatic	16-19,23	UA-UH8,9, 0,RA-RZ
Aves Is.	8	YV0	Jan Mayen Is.	40	JX	Russia, European	16	UA-UH1,3 4,6,RA-RZ
Azerbaijan	21	4J,4K	Japan	25	JA-JS			
Azores Is.	14	CU	Japan, US Personnel in	25	KA	Saba Is.	8	PJ
			Jarvis Is.	31	KH5	Sabah	28	9M6
Bahama Is.	8	C6	Jersey	14	GJ,GH	Sable Is.	5	CY0
Bahrain	21	A9	Johnston Is.	31	KH3	St Barthelemy	8	FJ
Baker & Howland Is.	31	KH1	Jordan	20	JY	St Helena Is.	36	ZD7
Balearic Is.	14	EA6-EH6	Juan de Nova Is.	39	FR,J	St Martin Is.	8	FJ,FS
Banaba	31	T33	Juan Fernandez Is.	12	CE0	St Paul Is.	5	CY9
Bangladesh	22	S2				St Peter & St Paul Rocks	11	PP0-PY0
Barbados	8	8P	Kaliningrad	15	UA2	St Pierre & Miquelon Is.	5	FP
Belarus	16	EU-EW	Kazakhstan	37	5Y,5Z	Saipan Is.	27	KH0
Belau	27	KC6	Kenya	37	5Y,5Z	Samoa, American	32	KH8
Belgium	14	ON-OT	Kerguelen Is.	39	FT8X	Samoa, Western	32	5W
Belize	7	TY	Kermadec Is.	32	ZL7	San Andres & Providencia Is.	7	HK0
Benin	35	VP9	Kingman Reef	31	KH5K	San Felix Is.	12	CE0
Bermuda Is.	5	VP9	Kiribati, East	31	T32	San Marino	15	T7
Bhutan	22	A5	Kiribati, Central	31	T31	Sao Tome & Principe	36	S9
Bolivia	10	CP	Kiribati, West	31	T30	Sarawak	28	9M8
Bosnia & Herzegovina	15	T9,4N4,4O4,YU4	Kure Is.	31	KH7	Sardinia	15	IM0,IS0
Botswana	38	A2	Kuwait	21	9K	Saudi Arabia	21	HZ
Bouvet Is.	38	3Y	Kyrgyzstan	17	EX	Scotland	14	GM,GS
Brazil	11	PP-PY	Labrador (Canada)	2	VO2	Senegal	35	6V,6W
Brunei	28	V8	Laccadive Is.	22	VU7	Seychelles	39	IT
Bulgaria	20	LZ	Lampedusa Is.	33	IG	Sierra Leone	35	9L
Burkina-Faso	35	XT	Laos	26	XW	Singapore	28	9V
Burundi	36	9U	Latvia	15	YL,UL	Sint Eustatius	8	PJ
			Lebanon	20	OD	Sint Maarten	8	PJ
Cambodia	26	XU	Leeward Is.			Slovak Republic	15	OM
Cameroon	36	TJ	Anguilla	8	VP2E	Slovenia	15	S5,YU3
Canada	1,2,3,4,5	VE,VO,VY	Antigua, Barbuda	8	V2	Solomon Is.	28	H4
Canary Is.	33	EA8-EH8	British Virgin Is.	8	VP2V	Somalia	37	T5
Cape Verde	35	D4	Montserrat	8	VP2M	South Africa, Rep of	38	ZR-ZU
			St Kitts, Nevis	8	V4	South Georgia Is.	13	VP8
Capri Is.	15	IC	Lesotho	38	7P	South Korea	25	HL
Cayman Is.	8	ZF	Liberia	36	EL	South Korea	13	LU,VP8
Central African Rep	36	EA9-EH9	Libya	34	5A	South Sandwich Is.	13	LU,VP8
Ceuta & Melilla (Spain)	33	EA9-EH9	Liechtenstein	14	H80	South Shetland Is.	13	HF0,4K1,CE9,LU,VP8
Chad	39	TT	Lithuania	15	LY,UP	Southern Sudan	34	ST0
Chagos	39	VO9	Lord Howe Is.	30	VK9L	Sov Mii Order of Malta	14	IA0
Chatham Is.	32	ZL7	Luxembourg	14	LX	Spain	14	EA-EH
Chile	12	CA-CE	Macao	24	XX9	Spratly Is.	26	IS
China	23,24	BT,BY	Macedonia	15	Z3,4N5,YU5	Sri Lanka	22	4P4S
Christmas Is.	29	VK9X	Macquarie Is.	30	VK0	Sudan	34	ST
Clipperton Is.	7	FO	Madagascar	39	5R,5S	Surinam	9	JW
Cocos Is.	7	T19	Maddalena Is.	15	IM	Svalbard Is.	40	PZ
Cocos (Keeling) Is.	29	VK9C	Madeira Is.	38	OT3	Swan Is.	7	HR0
Colombia	9	HJ,HK	Malaysia, East	28	9M6,9M8	Swaziland	38	3D4
Comoros	39	D6	Malaysia, West	28	9M2,9M4	Sweden	14	SA-SM
Congo	36	TN	Malawi	37	70	Switzerland	14	HB
Conway Reef	32	3D2	Maldives	22	8Q	Syria	20	YK
Cook Is.	32	ZK1	Mali	35	TZ	Taiwan	24	BV
Corsica	15	TK	Malta	15	9H	Tajikistan	17	EY
Costa Rica	20	TE,TI	Malpelo	9	HK0	Tanzania	37	5H-5I
Crete	20	SV9	Mal'y Vysotskij Is.	16	4J1,R1MV	Thailand	26	HS
Croatia	15	9A,YU2	Manihiki	32	ZK1	Tinian	27	KH0
Crozet Is.	39	FT8W	Mariana Is.	27	KH0	Togo	35	5V
Cuba	8	CM,C0	Marion Is.	38	ZS8	Tokelau Is.	31	ZK3
Cyprus	20	5B,ZC4	Markel Reef	15	OJ0	Tonga Is.	32	A3
Czech Republic	15	OK,OL	Marshall Is.	31	V7	Trinidad & Tobago	9	PP0-PY0
			Martinique	8	FM	Trinidad & Tobago	9	9Y,9Z
Denmark	14	OZ	Mauritania	35	5T	Tristan da Cunha & Gough Is.	38	ZD9
Deschecho Is.	8	KP5	Mauritius	39	3B8	Tromelin Is.	39	FR,T
Djibouti	37	VJ	Mayotte	39	FH	Tunesia	33	3V
Dodecanese Is.	20	SV5	Mellish Reef	30	VK9M	Turkey	20	TA-TC
Dominican Republic	8	HI	Mexico	6	XA-XI	Turkmenistan	17	EZ
			Micronesia	27	V6	Turks & Caicos Is.	8	VP5
Easter Is.	12	CE0	Midway Is.	31	KH4	Tuvalu Is.	31	T2
Ecuador	10	HC,HD	Minami-Tori-Shima	27	JD1			
Egypt	34	SU	Moldova	16	ER	Uganda	37	5X
El Salvador	7	YS	Monaco	14	3A	Ukraine	16	UR-UZ,EM-EO
England	14	G,GX	Mongolia	23	JT-JV	United Arab Emirates	21	A6
Equatorial Guinea	36	3C	Morocco	20	CN	United Nations HQ	5	4U
Eritrea	37	E3	Mount Athos	20	SV/A	United States of America	1,3,4, 5,31	AA-AL,K,N,W
Estonia	15	ES	Mozambique	37	C8,C9			
Ethiopia	37	ET	Netherlands	26	XY,XZ	Uruguay	13	CV-CX
Europa Is.	39	FR/E	Netherlands Antilles	38	V5	Uzbekistan	17	UJ-UM
			(Bonaire, Curacao)	9	PJ2,4,9	Vanuatu	32	YJ
Faroes	14	OY	New Caledonia	32	FK	Vatican	15	HV
Falkland Is.	13	VP8	Newfoundland (Canada)	5	VO1	Venezuela	9	YV-YY
Fernando de Noronha	11	PP0-PY0	New Zealand	32	ZL,ZM	Vietnam	26	3W,XV
Fiji Is.	32	3D2	Nicaragua	7	YN	Virgin Is.	8	KP2
Finland	15	OF-OI	Niger	35	5U			
France	14	F	Nigeria	35	5N,5O	Wake Is.	31	KH9
Franz Josef Land	40	4K2,UA1	Niue Is.	32	ZK2	Wales	14	GW,G0
French Guiana	9	FY	Norfolk Is.	32	VK9N	Wallis & Futuna Is.	32	FW
French Polynesia	32	FO	Northern Ireland	14	GI,GN	Walvis Bay	38	ZS9
			Norway	14	LA-LN	Western Sahara	33	S0
Gabon	36	TR	Ogasawara Is.	27	JD1	Willis Is.	30	VK9W
Galapagos Is.	10	HC8,HD8	Okinawa (Ryukyu Is.)	25	JR6	Windward Is.		
Gambia, The	35	C5	Oman	21	AY1	Dominica	8	J7
Georgia	21	4L				Grenada	8	J3
Germany	14	DA-DL,Y2-Y9	Pakistan	21	AP-AS	St Lucia	8	J6
Ghana	35	9G	Palmyra Is.	31	KH5	St Vincent	8	YB
Gibraltar	14	ZB2	Panama	7	HO,HP			
Glorioso Is.	39	FR/G	Papua New Guinea	28	P2			
Gozo (Malta)	15	9H4						
Graham Land	10	LU,VP8						
Greece	20	SV-SZ						
Greenland	40	OX						
Guadeloupe	8	FG						
Guam	27	KH2						
Guantanamo Bay	8	KG4						
Guatemala	7	TG,TD						
Guernsey	14	GU,GP						
Guinea-Bissau	35	J5						
Guinea	35	3X						

INTERNATIONAL RADIO AMATEUR PREFIXES

The following prefixes are listed in alphabetical order for convenience in identifying the country when DX calls are heard.

AA-AL	United States of America	JY	Jordan	VY1	Yukon Territory (Canada)
AP-AS	Pakistan	J2	Djibouti	V2	Antigua & Barbuda
A2	Botswana	J3	Grenada	V3	Belize
A3	Tonga	J5	Guinea-Bissau	V4	St Kitts & Nevis
A4	Oman	J6	St Lucia	V5	Namibia
A5	Bhutan	J7	Dominica	V6	Micronesia
A6	United Arab Emirates	J8	St Vincent & Dependencies	V7	Marshall Is
A7	Qatar			V8	Brunei
A9	Bahrain				
BV	Taiwan	K	United States of America	W	United States of America
BY,BT	China	KA	U.S. Personnel in Japan	XA-XI	Mexico
CA,CE	Chile	KC4	U.S. Antarctica	XA4-X14	Revilla Gigedo Is
CE9AA,AM	Chilean Antarctica, Tierra de	KC6	Western Caroline Is) Belau	XT	Burkina Faso
CE9,LU,VP8,HF0,4K1	O'Higgins, Palmer Peninsula, Graham Land	KG4	Guantanamo Bay	XU	Cambodia
CE0	South Shetland Is	KH1	Baker & Howland Is	XV	Viet Nam
CE0	Easter Is	KH2	Guam	XW	Laos
CE0Z	San Felix Is	KH3	Johnston Is	XX9	Macao
CM,CO	Cuba	KH4	Midway Is	XY,XZ	Myanmar
CN	Morocco	KH5	Jarvis & Palmyra Is		
CP	Bolivia	KH6	Kingman Reef	YA	Afghanistan
CT	Portugal	KH7	Hawaii	YB-YH	Indonesia
CT3	Madeira Is	KH8	Kure Is	YI	Iraq
CU	Azores Is	KH9	Wake Is	YJ	Vanuatu
CV-CX	Uruguay	KH0	Mariana Is	YK	Syria
CY0	St. Paul Is (Canada)	KL7	Alaska	YL	Latvia
CY0	Sable Is (Canada)	KP1	Navassa Is	YN	Nicaragua
C2	Nauru	KP2	Virgin Is	YO-YR	Romania
C3	Andorra	KP4	Puerto Rico	YS	El Salvador
C5	The Gambia	KP5	Desecheo Is	YT,YU,YZ	Yugoslavia
C6	Bahamas			YV-YZ	Venezuela
C8,C9	Mozambique	LA-LN	Norway	YV0	Aves Is
DA-DL	Germany	LO-LW	Argentina	Y2-Y9	Germany
DU-DZ	Philippines	LU	Argentine Antarctica		
D2,D3	Angola	LX	Luxembourg	ZA	Albania
D4	Cape Verde	LY	Lithuania	ZB2	Gibraltar
D6	Comoros	LZ	Bulgaria	ZC4	Cyprus (Br. Forces)
EA-EH	Spain	N	United States of America	ZD7	St Helena Is
EA6	Balearic Is	OA-OC	Peru	ZD8	Ascension Is
EA8-EH8	Canary Is	OD	Lebanon	ZD9	Tristan da Cunha & Gough Is
EA9-EH9	Ceuta & Melilla	OE	Austria	ZE	Cayman Is
EI,EJ	Ireland	OF-OI	Finland	ZK1	Cook & Manihiki Is
EJ0	Aran Is	OH0	Aland Is	ZK2	Niue Is
EK	Armenia	OJ0	Market Reef	ZK3	Tokelau Is
EL	Liberia	OK-OL	Czech Republic	ZL	New Zealand
EM-EO	Ukraine	OM	Slovak Republic	ZP	Paraguay
EP,EO	Iran	ON-OT	Belgium	ZR-ZU	Rep of South Africa
ES	Moldova	OX,OZ	Denmark	ZS8	Prince Edward & Marion Is
ET	Estonia	OY	Faroes	ZS9	Walvis Bay
EU-EW	Belarus	PA-PI	Netherlands	Z2	Zimbabwe
EX	Kyrgyzstan	PJ	Netherlands Antilles	Z3	Macedonia
EY	Tajikistan	PP-PY	Brazil	1A0	Sovereign Military Order of Malta
EZ	Turkmenistan	PP0-PY0	Fernando de Noronha Is	1S	Spratty Is
F	France	PP0-PY0	St Peter & St Paul Rocks		
FG	Guadeloupe	PP0-PY0	Trindade & Martin Vaz Is	3A	Monaco
FH	Mayotte	PZ	Surinam	3B6	Agalega Is
FJ	St Barthelemy	P4	Papua New Guinea	3B7	St Brandon
FK	New Caledonia			3B8	Mauritius Is
FM	Martinique	RA-RZ	Russia	3B9	Rodriguez Is
FO	French Polynesia, Clipperton Is	SA-SM	Sweden	3C	Equatorial Guinea
FP	St Pierre & Miquelon	SN-SR	Poland	3C0	Pagau Is
FR	Reunion Is	ST	Sudan	3DA-3DM	Swaziland
FR/E	Europa Is	ST0	Southern Sudan	3DN-3DZ	Fiji Is
FR/G	Glorioso Is	SU	Egypt	3V	Tunisia
FR/J	Juan de Nova Is	SV-SZ	Greece	3W	Laos
FR/T	Tromelin Is	SV5	Dodecanese Is	3X	Guinea
FS	St Martin Is	S2	Crete	3Y	Peter I & Bouvet Is
FT8W	Crozet Is	S5	Bangladesh	4F	Philippines
FT8X	Kerguelan Is	S6	Singapore	4J,4K	Azerbaijan
FT8Y	French Antarctica	S7	Seychelles	4J1,R1MV	Malyj Vysoisky Is
FT8Z	Amsterdam & St Paul Is	S9	Sao Tome & Principe	4K1	Russian Antarctica
FW	Wallis & Futuna Is	S0	Western Sahara	4K2	Franz Josef Land
FY	French Guiana	TA-TC	Turkey	4N4	Bosnia & Herzegovina
G,GX	England	TD,TG	Guatemala	4L	Georgia
GD	Isle of Man	TF	Iceland	4P4S	Sri Lanka
GI,GN	Northern Ireland	TI,TE	Costa Rica	4U	I.T.U. Geneva
GJ,GH	Jersey	TI9	Cocos Is	4X,4Z	Israel
GS,GM	Scotland	TJ	Cameroon		
GP,GU	Bailiwick of Guernsey	TK	Corsica (France)	5A	Libya
GW,GC	Wales	TL	Central African Republic	5B	Cyprus
HA,HG	Hungary	TN	Congo	5H,5I	Tanzania
HB	Switzerland	TR	Gabon	5L	Zanzibar
HBO	Liechtenstein	TT	Chad	5L	Liberia
HD	Ecuador	TU	Ivory Coast	5N,5O	Nigeria
HD8	Galapagos Is	TY	Benin	5R,5S	Madagascar
HH	Haiti	TZ	Mali	5T	Mauritania
HI	Dominican Republic	T2	Tuvalu	5U	Niger
HJ,HK	Colombia	T3	Kiribati	5V	Togo
HK0	Bajo Nuevo, Malpelo, San Andres, Providencia Is	T5	Somalia	5W	Western Samoa
HL	South Korea	T6	Afghanistan	5X	Uganda
HM	North Korea	T7	San Marino	5Y,5Z	Kenya
HO,HP	Panama	T9	Bosnia & Herzegovina		
HQ,HR	Honduras	UA-UI	Russia	6V,6W	Senegal
HRO	Swan Is	VE,VO,VY	Canada	6Y	Jamaica
HS	Thailand	VK	Australia		
HU	El Salvador	VK7	Tasmania	7J-7N	Japan
HV	Vatican City	VK9C	Cocos (Keeling) Is	7O	Yemen
HZ	Saudi Arabia	VK9L	Lord Howe Is	7P	Lesotho
H4	Solomon Is	VK9M	Melish Reef	7Q	Malawi
I	Italy	VK9N	Norfolk Is	7T-7Y	Algeria
IA	Tuscan Archipelago	VK9W	Willis Is	7Z	Saudi Arabia
IC	Capri & Ischia Is	VK9X	Christmas Is		
IG	Lampedusa Is	VK0	Heard Is, Australian Antarctica	8J	Japanese Antarctica
IH	Pantelleria Is	V01	Newfoundland (Canada)	8P	Barbados
IM	Maddelena Is	V02	Labrador (Canada)	8Q	Maldives Is
IMO-ISO	Sardinia	VP2E	Anguilla	8R	Guyana
IT	Sicily	VP2M	Montserrat		
JA-JS	Japan	VP5	Turks & Caicos Is	9A	Croatia
JD1	Ogasawara Is	VP8	Falkland, S. Georgia, S. Orkney, S. Sandwich, S. Shetland, Graham Land	9G	Ghana
JD1	Minami-Tori-Shima	VP9	Bermuda Is	9H	Malta
JR6	Okinawa (Ryukyu Is)	VR2,VS6	Chagos Archipelago	9H4	Gozo
JT-JV	Mongolia	VR6	Pitcairn Is	9I,9J	Zambia
JW	Svalbard Is	VU	Andaman & Nicobar Is	9K	Kuwait
JX	Jan Mayen Is	VU	Laccadive Is	9L	Sierra Leone

6 METER BEACONS

This list has been prepared by Harry Schools KA3B and Ray Clark K5ZMS for SMIRK, the Six Meter International Radio Klub. Please send all update information and Klub membership inquiries to K5ZMS.

I=Intermittent beacon. C=Continuous beacon.

FREQ.	CALL	OPERATION	LOCATION	GRID	NOTES
35.810	VK6RO	I	Western Australia		3W,6 el Yagi
41.750	VK6RO	I	Western Australia		8W,6 el Yagi
45.250	Ch. 1	I	New Zealand TV video		
46.250	Ch. 0	I	Australian TV video		
48.250	Ch. E2	I	European/African TV video		
49.750	Ch. RI	I	European/Asian TV video		
50.000	CE3BXX	I	Santiago, Chile		
50.000	GB3BUX	C	Sheffield Univ., Buxton, England	I093BF	15W, Turnstile
50.005	ZS2SIX	C	Rep. of South Africa	KF25	25W, dipole N/S
50.005	H44HIR		Honaria, Solomon Islands	Q100	
50.007.2	K0GUV	C	Park Rapids, Minnesota, USA	EN26	8W, Halo 35'
50.010	VE7SIX	C	Kaleden, BC, Canada	DN09	130W, Swiss Quad
50.010	JA2IGY	C	Mie (near Nagoya), Japan	PM84	10W, ground plane
50.013	P29BPL	C	Port Moresby, Papua New Guinea	Q130	30W, dipole
50.015	SZ2DH	I	Athens, Greece	KM18MM	10W, 5 el yagi
50.015	PJ4B	C	Bonaire, Netherlands Antilles		
50.017	JE6ZIH	C	Miyazaki, Japan	PM51	10W, 2X/Squalo
50.018	ZS3VHF	C	Rep. of South Africa	JG87	50W, ground plane
50.020	GB3SIX	C	Anglesey, Wales	1073TJ	25W, 3 el Yagi
50.020	CX1CCC	C	Uruguay	GF15	5W, ground plane
50.025	6Y5RC	C	Kingston, Jamaica	FK17MX	40W, 3 el Yagi
50.026.5	ZS6PW	I	Rep. of South Africa	KG44	
50.028	JA7ZMA	C	Fukushima, Japan	QM07	10W, 6 el Yagi
50.030	CT0WW	C	Joao Pesdueira, Portugal	IN61GE	40W, dipole
50.032.5	ZD8VHF	C	Ascension Island	II22	50W, JVL vertical
50.033	LU8YYO	C	Argentina		
50.035	ZB2VFH	C	Gibraltar		
50.035	ZS3VHF	C	Rep. of South Africa		60W, vertical
50.039	FY7THF	C	Kourou, French Guyana	GJ35	100W, ground plane
50.040	CX8BE	I	Montevideo, Uruguay	GF15	10W, 4 el Yagi
50.040	SV1SIX		Greece		
50.045	YV5/DL3ZM	C	Caracas, Venezuela	FK60	10W, 6 el Yagi
50.045	OX3VHF	C	Simiutaq, Greenland	GP60QQ	20W, ground plane
50.050	GB3NHQ	C	Potters Bar, England	I091VQ	15W, dipoles
50.050	ZS6DN	C	Irene, Rep. of South Africa	KG44	
50.055	ZS6LN	I	Rep. of South Africa	KG46	
52.056	VK8VF	C	Darwin, Australia	PH57	20W, horizontal
50.057.5	TF2SIX	C	Iceland	HP94CC	50W, vertical
50.060	GB3RMK	C	Rosemarkie, Scotland	I077UO	20W, dipole
50.060	K4TQR	C	Birmingham, Alabama, USA	EM630M	1W, dipole 60'
50.060	WA8ONQ	C	Middletown, Ohio, USA	EM79TM	2W, Turnstile 60'
50.060	W5VAS	C	Slidell, Louisiana, USA	EM50	0.5W, vertical 310
50.060.2	PY2AA	C	Sao Paulo, Brazil	GG66QK	25W, ground plane
50.061	K1NFE	C	Burlington, Connecticut, USA	FN31MS	15W, Turnstile 70'
50.062	W3VD	C	Laurel, Maryland, USA	FM19NC	10W, vertical 40'
50.062.5	GB3NGI	C	Londonderry, No. Ireland	IO65	18W, dipole
50.063	N4PZ	C	Sarasota, Florida, USA	EL87SF	0.4W, whip 70'
50.063	K6MYC	I	Kona, Hawaii, USA	BK29	10W, M sq. Yagi
60.064	WD7Z	C	Yucca, Arizona, USA	DM24MV	75W, Squalo, 60'
50.065	WA10JB	C	Bowdoin, Maine, USA	FN54	13W, J-pole 15'
50.065	NB30/1	C	Rhode Island, USA	FN41	100W, 5 el Yagi
50.065	W9KFO	C	Eaton, Indiana, USA	EN70HH	1.5W
50.065	KA0CDN	C	Aurora, Colorado, USA	DM79PS	20W, Halo 30'
50.065	W0IJR	C	Aurora, Colorado, USA	DM79PS	20W, Halo 30'
50.065	KL7WE	I	Anchorage, Alaska, USA	BP51	1.5W, 3 el Yagi
50.065.5	GB3IOJ	C	Jersey, Channel Islands	IN89	10W, Halo
50.066	VK6RPR	C	Perth, Australia	OF78	20W, horizontal
50.067	WB8IGY	I	Loveland, Ohio, USA	EM79UG	2W, vertical 100'
50.067	N7DB	I	Boring, Oregon, USA	CN85TM	10W, Halo 30'
50.067		C	Brazzaville, Congo AM Station		
50.068	W7US	C	Tucson, Arizona, USA		
50.068.5	W4RFR	C	Nashville, Tennessee, USA	EM66WA	2W
50.069	W4HHK	C	Collierville, Tennessee, USA	EM55HA	1W, dipole 30'
50.069	K6FV	C	Woodside, California, USA	CM87UL	100W, various 30'
50.070	W0BJ	C	North Platte, Nebraska, USA	DN91NC	5W, Turnstile 12'
50.070	KA4VEY	C	Harvest, Alabama, USA	EM64VV	10W, vertical
50.070	KB4UPI	C	Birmingham, Alabama, USA	EM630M	4W, dipole 25'
50.059	JH0ZPI		Ueda City Nagano, Japan		1W/5W/10W switch op.
50.070	KA4VEY	C	Harvest, Alabama, USA	EM64VV	10W, vertical
50.070	KB4UPI	C	Birmingham, Alabama, USA	EM630M	4W, dipole 25'
50.070	K0TF	C	Des Moines, Iowa, USA	EN31KC	3W, inverted V

6 METER BEACONS

FREQ.	CALL	OPERATION	LOCATION	GRID	NOTES
50.070	N4LTA	C	Spartanburg, S. Carolina, USA	EM94AX	10W, Halo 50'
50.070	WA7ECY	C	Troutdale, Oregon, USA	CN85SM	10W, Squalo 30'
50.070	WB0CGH	C	Lewisville, Texas, USA	EM13MC	1.5W, Halo 180'
50.070	WB4GJG	I	Danville, Virginia, USA	FM06HM	1W, Ringo 70'
50.071	W0VD	C	Joplin, Missouri, USA	EM27VD	12W, dipole 20'
50.072	WA2YTM	C	Canadaigua, New York, USA	FN121T	15W, Turnstile
50.072	KW2T	C	Palmyra, New York, USA	FN13	0.25W, Squalo 30'
50.074	WB4DSH	C	Oklahoma City, Oklahoma, USA	EM15FL	30W, Halo 40'
50.075	K7IHZ	I	Mesa, Arizona, USA	DM43BM	20W, Squalo
50.075	PY2AMI	C	Americana, Brazil	GG67IF	10W, ground plane
50.075	NL7XM/Z	C	Staten Island, New York, USA	FNZOWN	10W, vertical
50.075	KP4EKG	I	Bayamon, Puerto Rico, USA	FK68	10W, vertical 35'
50.075	VS6SIX	C	Hong Kong	OL72	30W, ground plane
50.077	N0LL	C	Smith Center, Kansas, USA	EM09OS	21W, 2 Halos 30'
50.077	N5JM	I	New Orleans, Louisiana, USA	EL49XW	3W, vertical 50'
50.077.5	TI2NA	C	San Jose, Costa Rica	EK70	20W, dipole
50.079	W6SKC/7	C	Nogales, Arizona, USA	DM41ML	5-80W, horizontal 15'
50.080	KH6JJK	I	Honolulu, Hawaii, USA	BI11CI	5W, 3 el Yagi
50.080	WB400J	C	Tampa, Florida, USA	EL87SU	10W, vertical 25'
50.080	W1AW	I	ARRL, Newington, CT, USA	FN31PQ	50W, 6 el Yagi 60'
50.082	HC8SIX	C	Galapagos Islands	EI59	4W, vertical
50.085	9H1SIX	C	Malta	JM75FV	25W, 5 el Yagi
50.086	LU1MA	C	Mendoza, Argentina	FF57	10W, 2 el Quad
50.086	K7NV	I	Pahrump, Nevada, USA	DM16	
50.086	VE2STL	C	Val Belair, Quebec, Canada	FN46	1.5W, dipole
50.086	VP2MO	I	Plymouth, Montserrat	FK86	10W, 6 el Yagi 50'
50.090	KJ6BZ	C	Jonnston Island	AK56	10W, 6 el Yagi
50.092	W5GTP	I	New Iberia, Louisiana	EM40CA	30W, 3 el Yagi 30'
50.100	HC2FG	C	Guayaquil, Ecuador	F107	8W, J-pole
50.100	VP5D	C	Turks & Caicos Islands	FL31	6W, AR6 Ringo 60'
50.100	KG6DX	I	Latte Heights, Guam	QK23	40W, 3 el Yagi
50.110	JA2IGY	C	Mie (near Nagoya), Japan	PM84	10W, ground plane
50.110	A61XL	I	United Arab Emirates	LL74	50W, 6 el Yagi
50.120	4S7EA	I	Sri Lanka	MJ97	50W, 6 el Yagi
50.321	ZS5SIX	C	Pietermaritzburg, RSA	KG50	10W, Halo
50.490	JG1ZGW	C	Tokyo, Japan	PM95	10W, dipole
50.500	5B4CY	C	Zyghi, Cyprus	KM64HT	15W, ground plane
50.740	Ch. 1 Audio	I	Auckland, New Zealand	WBFM	
50.750	Ch. 1 Audio	I	Kaukapunake, New Zealand	WBFM	
50.760	Ch. 1 Audio	I	Waukapunake, New Zealand	WBFM	
50.904	ZS1STB	C	Republic of South Africa	KF05	25W, ground plane
51.020	ZL1UHF	C	Auckland, New Zealand	RF73	25W, dipole
51.030	ZL2MHB	C	Napier, New Zealand	RF80	10W, vertical
51.225	ZL2VHTC		Inglewood, New Zealand	RF70	30W
51.670	Ch. 0 Audio	I	Brisbane, Qld, Australia	FM	
51.740	Ch. 0 Audio	I	Wagga, NSW, Australia	FM	
51.760	Ch. 0 Audio	I	Melbourne, Vic, Australia	FM	
51.910	Ch. 0 Audio	I	Brisbane, Qld, Australia		
52.100	ZK2SIX	C	Niue	AH50	
52.200	VK8VF	C	Darwin, Australia	PH57	20W, horizontal
52.250	ZL2VHM	C	Manawatu, New Zealand	RE79	8W
52.310	ZL3MHF	C	Christchurch, New Zealand	RE66	50W, vertical
52.320	VK6RTT	C	Wickham, Australia	OG89	25W, J-pole
52.325	VK2RHV	C	Newcastle, Australia	QF57	20W, horizontal
52.330	VK3RGG	C	Geelong, Australia	QF21	10W, horizontal
52.345	VK4ABP	C	Longreach, Australia	QG26	10W, vertical
52.370	VK7RST	C	Hobart, Australia	QE37	20W, horizontal
52.420	VK2RSY	C	Sydney, Australia	QF56	25W, Turnstile
52.425	VK2RGB	C	Gunnedah, Australia	QF59	5W, horizontal
52.440	VK4RTL	C	Townsville, Australia	QH30	10W, 1/4 vertical
52.450	VK5VF	C	Adelaide, Australia	PF95	30W, Turnstile
52.460	VK6RPH	C	Perth, Australia	OF78	20W, horizontal
52.465	VK6RTW	C	Albany, Australia	OF84	10W, horizontal
52.470	VK7RNT	C	Launceston, Australia	QE38	10W, horizontal
52.485	VK8RAS	C	Alice Springs, Australia	PG66	25W, horizontal
52.490	ZL2SIX	C	Blenheim, New Zealand	RE68	10W, vertical
52.510	ZL2MHF	C	Upper Hut, New Zealand	RE78	4W, vertical

INTERNATIONAL POSTAL RATES

These are the postal rates in effect at the time of this issue.

	United States & Possessions	Canada	Mexico	All Other Countries
First Class Air Postcard(QSL)	\$0.19	\$0.40	\$0.35	\$0.50
Surface Postcard (QSL) (1 Oz.)				\$0.50
First Class Air Letter (1 Oz.)	\$0.32	\$0.52	\$0.46	\$1.00
Additional Ounces	\$0.23	\$0.23**	\$0.40***	
Surface Letter (1 Oz.)				\$0.80*
Aerogramme				\$0.50

*Over 1 up to 2 oz. \$0.95; over 2 up to 3 oz. \$1.20; Over 3 up to 4 oz. \$1.45

**Over 1 up to 2 oz. \$0.72; over 2 up to 3 oz. \$0.95; over 3 up to 4 oz. \$1.14

***Over 1 up to 1½ oz. \$0.66; over 1½ up to 2 oz. \$0.86; over 2 up to 3 oz. \$1.26; over 3 up to 4 oz. \$1.66

INTERNATIONAL REPLY COUPONS (IRC's) may be purchased at U.S. Post Offices for \$1.05 each.

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CALLBOOK ON-LINE UPDATES

An exclusive service from the *Callbook*! And it's FREE to all *Callbook* subscribers with personal computer. No annual fee is charged, pre-registration is not required, and you don't need a password.

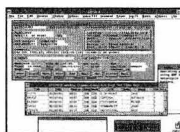
The *Callbook* has established a dedicated telephone line for this 24 hour On-line Update Service. Users have access to listing information entered into the *Callbook's* master line which has not yet been published in a *Callbook*. New licenses, upgrades, address changes, Silent keys and "Then and Now" call sign changes are included.

This service is not restricted to U.S. calls. All new or modified *Callbook* listings, U.S. or foreign, are available.

This on-line service is easy to use:

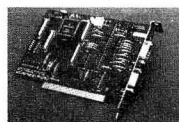
1. You need a personal computer with a modem capable of speeds up to 28.8K baud. The line settings must be 8 data bits, 1 stop bit, and no parity (8,N,1). Your communications software must emulate a DEC VT100-A terminal.
2. Call (908) 905-3074.
3. After connection, press Enter twice.
4. The sign-on screen will say "Type ON." Key in the letter "O" and "N" and then press Enter. (Do not key in the quotation marks.)
5. Follow the instructions on the introductory screen. To make this service available to all amateurs, you will be allowed a maximum of 3 sign "look ups" per telephone call.

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THIRD-PARTY TRAFFIC

The U.S. Federal Communications Commission defines third-party traffic [Part 97.3 (a) (38)] as: "a message from the control operator (first party) of an amateur station to another amateur station control operator (second party) on behalf of another person (third party)." U.S. amateurs are only permitted to handle such third-party traffic with countries having third-party agreements with the United States.

The following is a current list of these countries:

V2	Antigua & Barbuda	YS	El Salvador	YN	Nicaragua
LU	Argentina	9G	Ghana	HP	Panama
VK	Australia	J3	Grenada	ZP	Paraguay
V3	Belize	TG	Guatemala	OA	Peru
CP	Bolivia	8R	Guyana	DU	Philippines
PP-PY	Brazil	HH	Haiti	VR6	Pitcairn Is.
VE,VO,VY	Canada	HR	Honduras	V4	St. Kitts, Nevis
CE	Chile	4X,4Z	Israel	J6	St. Lucia
HK	Colombia	4U1ITU	ITU, Geneva	J8	St. Vincent
D6	Comoros	4U1VIC	ITU, Vienna	9L	Sierra Leone
TI	Costa Rica	6Y	Jamaica	3D6	Swaziland
CM,CO	Cuba	JY	Jordan	C5	The Gambia
J7	Dominica	EL	Liberia	9Y	Trinidad & Tobago
HI	Dominican Republic	XE	Mexico	CX	Uruguay
HC	Ecuador	V6	Micronesia	YV	Venezuela

RECIPROCAL OPERATING AGREEMENTS

The United States has negotiated reciprocal operating agreements with many other countries. Amateurs may operate within the territory of these countries according to the terms of the agreement after first obtaining a permit from the host country. The sole exception is Canada: amateurs with valid U.S. or Canadian licenses may operate within the other country's territory without obtaining a permit. They must, of course, abide by all the terms of the reciprocal operating agreement.

The following is a current list of countries having reciprocal operating agreements with the United States:

V2	Antigua & Barbuda	OX	Greenland	YN	Nicaragua
LU	Argentina	J3	Grenada	LA	Norway
VK	Australia	TG	Guatemala	HP	Panama
OE	Austria	8R	Guyana	P2	Papua New Guinea
C6	Bahamas	HH	Haiti	ZP	Paraguay
8P	Barbados	HR	Honduras	OA	Peru
ON	Belgium	VS6	Hong Kong	DU	Philippines
V3	Belize	TF	Iceland	CT	Portugal
CP	Bolivia	VU	India	J6	St. Lucia
A2	Botswana	YB-YH	Indonesia	J8	St. Vincent
PP-PY	Brazil	EI	Ireland	S7	Seychelles
VE,VO,VY	Canada	4X,4Z	Israel	9L	Sierra Leone
CE	Chile	I	Italy	H4	Solomon Is.
HK	Colombia	6Y	Jamaica	ZR,ZS	Rep. of South Africa
TI	Costa Rica	JA-JS	Japan	EA-EH	Spain
5B	Cyprus	6Y	Jordan	PZ	Surinam
OZ	Denmark	T3	Kiribati	SJ-SM	Sweden
J7	Dominica	9K	Kuwait	HB	Switzerland
HI	Dominican Republic	EL	Liberia	HS	Thailand
HC	Ecuador	LX	Luxembourg	9Y	Trinidad & Tobago
YS	El Salvador	V6	Micronesia	T2	Tuvalu
3D2	Fiji	XE	Mexico	G	United Kingdom
OH	Finland	3A	Monaco	CX	Uruguay
F	France & Territories	PA-PI	Netherlands	YV	Venezuela
DA-DR	Germany	PJ	Netherlands Antilles	YU	Yugoslavia
SV	Greece	ZL	New Zealand		

TELEGRAPH CODES

Continental Code		Morse Code	
Used in ham radio		Used on land lines in United States and Canada	
A	• -	A	• -
B	- • • •	B	- • • •
C	- - • -	C	- • • •
D	- • •	D	- • •
E	•	E	•
F	• • - •	F	- • - •
G	- - •	G	- - •
H	• • • •	H	• • • •
I	• •	I	• •
J	• - - -	J	- • - •
K	- • -	K	- • -
L	• • •	L	- - -
M	- -	M	- -
N	- •	N	- •
O	- - -	O	• •
P	• - • •	P	• • • •
Q	- - • -	Q	• • • •
R	• • •	R	• • • •
S	• • •	S	• • • •
T	-	T	-
U	• • -	U	• • -
V	• • •	V	• • - -
W	• • -	W	• • - -
X	- • • -	X	• • • •
Y	- • - -	Y	• • • •
Z	- - • •	Z	• • • •
		&	• • • •
There are no space letters in the Continental Code		C, O, R, Y, Z, and & are composed of dots and spaces T is a short dash L is a longer dash Zero (0) is usually abbreviated to T	
Figures		Figures	
1	• - - -	1	• - - •
2	• • - -	2	• • • •
3	• • • -	3	• • • •
4	• • • -	4	• • • •
5	• • • •	5	- - -
6	- • • •	6	• • • • •
7	- - • •	7	- - • •
8	- - - •	8	- - • •
9	- - - •	9	- • • -
0	- - - -	0	- - - -
Punctuation		Punctuation	
(.)	• - • • -	(.)	• • - - • •
(.)	• • - - -	(.)	- • - -
(?)	• • - - • •	(?)	- • • - •
(:)	- - - - • •	(:)	- - - • •
(:)	- - • • • •	(:)	• • • • •
(-)	- • • • •	(-)	• • • • • - • •
(!)	None at present	(!)	- - - - •
(')	• • - - - •	(')	• • • • • - • •
(/)	- - - •	(/)	- - - -
()	- • • • •	()	• • • • • - •
)	- - - • • -)	• • • • • • • •
(")	• • • • - •	(")	• • - - - •
		(")	• • • • • - • •

Emergency Signal

**In a dire emergency situation
use SOS by code, MAYDAY by voice.**

SPECIAL LISTINGS

A Special Listing in the *Callbook* is printed in boldface type to ensure your recognition in the crowd and make your listing easier to locate. This service includes special handling to give you just the wording you want. Would you like to include a nickname or a non-controversial slogan? Do you have more than one mailing address, perhaps one in the summer and another in the winter? A *Callbook* Special Listing can provide these services and more for an entire year at nominal cost. The basic Special Listing is 3 lines or fewer. Additional lines are available up to a total of 9 lines. Please note there is a maximum of 44 characters and spaces per line. The publisher reserves the right to refuse any copy not in keeping with the *Callbook's* standards.

Copy deadline is September 15, 1996 for the 1997 editions of the *Callbooks*.

Item # RC2497

\$15.00 Basic 3-line listing, per year.

\$5.00 Each additional line (maximum 9 lines)



Special Listing Order Form

September 15, 1996, is the deadline for this service in the 1997 RADIO AMATEUR CALLBOOK.

[illegible]

Enclosed is my check or money order.

Charge my: ☐ VISA ☐ MasterCard ☐ American Express

Card # _____ Exp. Date _____

Signature _____

Name _____

Address _____

City _____

State/Province _____ Zip/Postal Code _____

Country _____

RADIO AMATEUR CALLBOOK

P.O. Box 2013, Lakewood, New Jersey 08701 USA
Telephone: (908) 905-2961 Facsimile: (908) 363-0338

STANDARD TIME THROUGHOUT THE WORLD

The standard time system is based on the theoretical division of the surface of the globe into 24 zones, each of 15° of longitude. The initial zone is the one which has as its central meridian the Greenwich Meridian and with the meridians 7° 30' E. and 7° 30' W. as its eastern and western limits. Time in this zone is called Universal Coordinated Time, or UTC. Places to the east of Greenwich are ahead of UTC, while places to the west are behind UTC. Not all countries follow the International Time Zone System, but will use the time of some principal city as a standard or will have no standard time at all.

Reference - "Standard Time Chart of the World" No. 5192, published by the U.S. Navy Hydrographic Office, Washington D.C.

Country	Standard or local time	
	Hours fast or slow of UTC	Time at 12:00 hrs. UTC
Albania	+ 1	13 00
Algeria	+ 0	12 00
Algeria	+ 1	13 00
Algeria	+ 2	14 00
Algeria	+ 3	15 00
Algeria	+ 4	16 00
Algeria	+ 5	17 00
Algeria	+ 6	18 00
Algeria	+ 7	19 00
Algeria	+ 8	20 00
Algeria	+ 9	21 00
Algeria	+ 10	22 00
Algeria	+ 11	23 00
Algeria	+ 12	24 00
Algeria	+ 13	01 00
Algeria	+ 14	02 00
Algeria	+ 15	03 00
Algeria	+ 16	04 00
Algeria	+ 17	05 00
Algeria	+ 18	06 00
Algeria	+ 19	07 00
Algeria	+ 20	08 00
Algeria	+ 21	09 00
Algeria	+ 22	10 00
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Algeria	+ 41	05 00
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Algeria	+ 85	01 00
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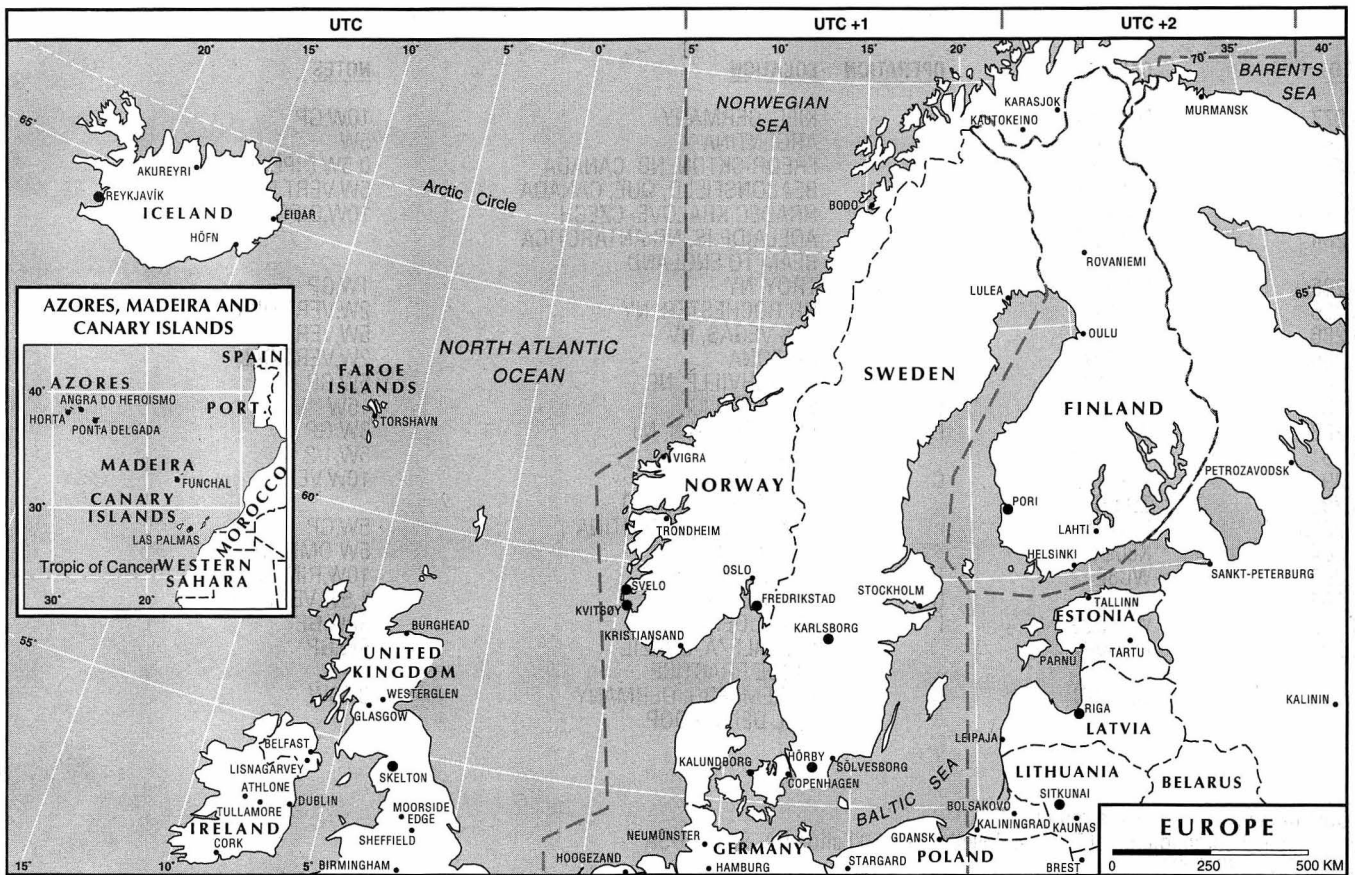
10 METER BEACONS

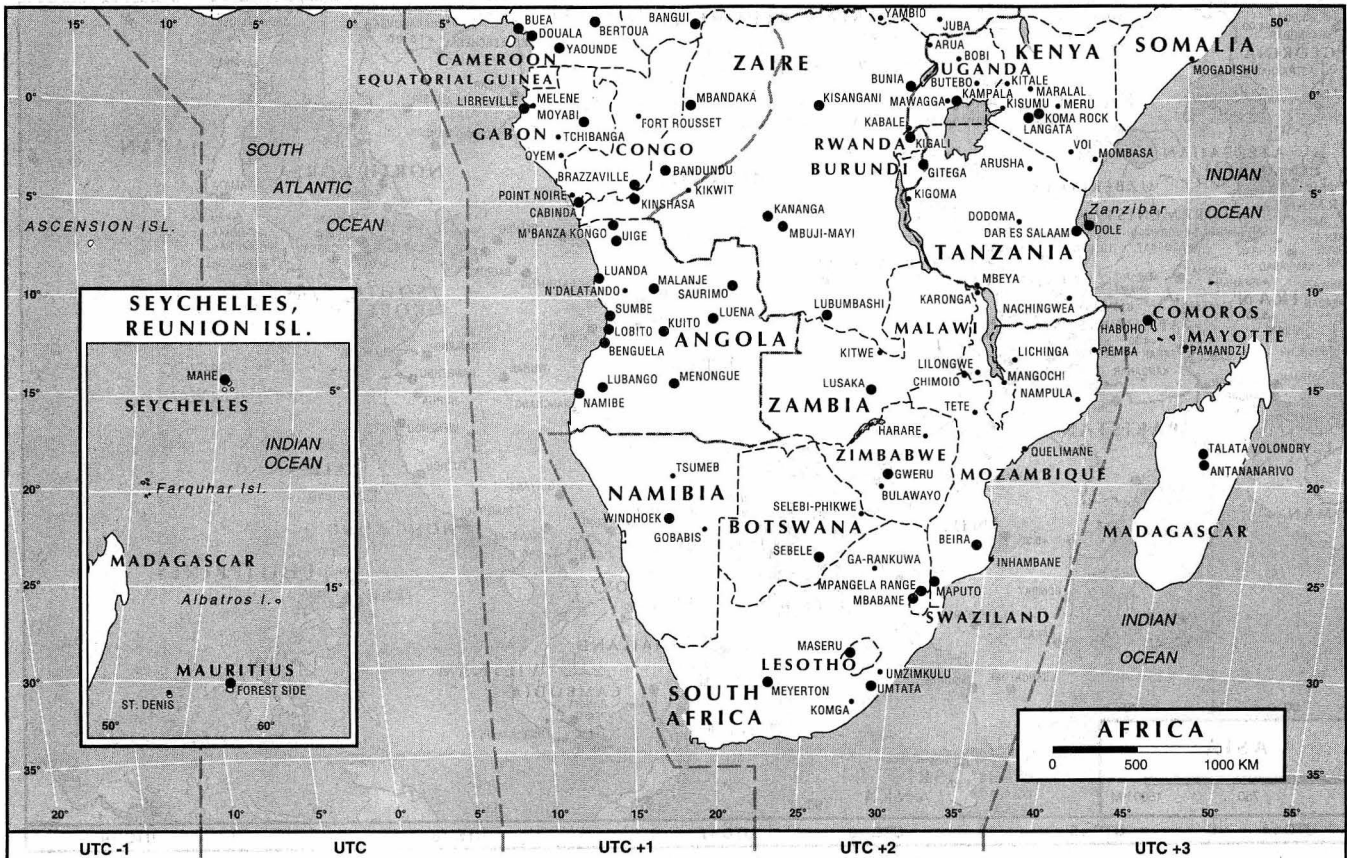
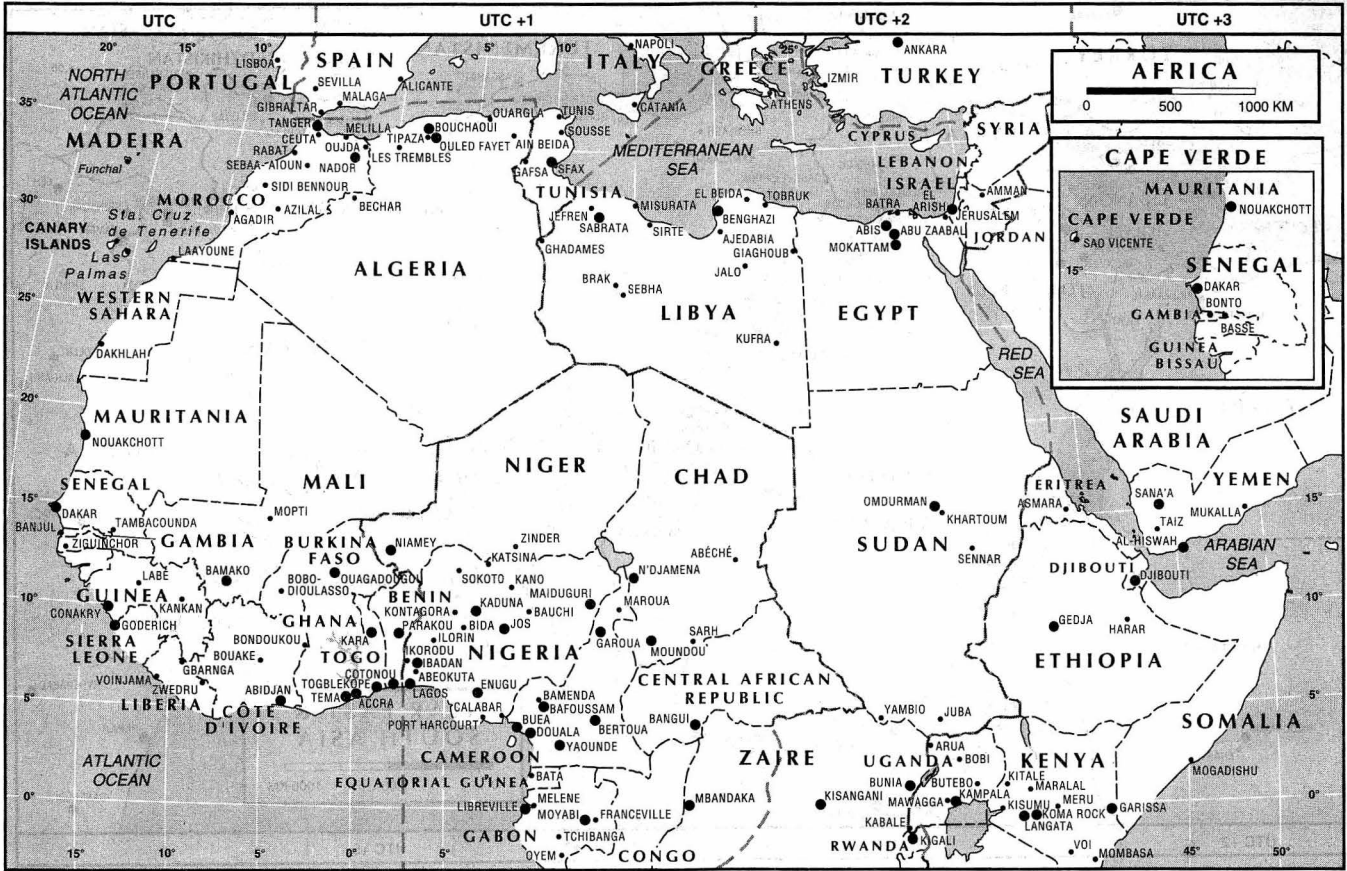
FREQ.	CALL	OPERATION	LOCATION	NOTES
28.175	VE3TEN	C	OTTAWA, ONT.	10W,GP
28.1825	SV3AQR/B	C	AMALIAS, GREECE	4W,GP
28.191	VE6YF		EDMONTON, ALTA.	10W
28.195	IY4M	ROBOT	BOLOGNA, ITALY	20W,5/8 GP
28.2	GB3SX	C	CROWBOROUGH, ENGLAND	8W,DIPOLE
28.201	LU8ED		ARGENTINA	5W
28.202	KE5GY	I	ARLINGTON, TX	5W,VERTICAL
28.2025	ZS5VHF		NATAL, RSA	5W,GP
28.204	DL0IGI	C	GERMANY	100W,VERT DIPOLE
28.205	KA3OEM		MEADVILLE, PA	27W,YAGI/WEST
28.206	KJ4X		PICKENS, SC	2W,VERTICAL
28.2075	N8ZKP	C	BROOKPARK OH	10W,VERT
28.208	WA1IOB	C	MARLBORO, MA	75W,VERT
28.209	NX20	C	STATEN ISLAND, NY	10W,GP
28.21	3B8MS	C	MAURITIUS	GP
28.21	K4KMZ	I	ELIZABETHTOWN, KY	20W,VERT
28.21	KC4DPC	C	WILMINGTON, NC	4W,DIPOLE
28.212	EA6RCM		PALMA DE MALLORCA	4W,5 EL YAGI NNE
28.2125	ZD9GI	C	GOUGH ISLAND	GP
28.213	PT7BCN	C	CEARA, BRAZIL	
28.216	GB3RAL	C	SLOUGH, ENGLAND	20W,GP
28.2175	WB9VMY	C	CALUMET, OK	2W,DIPOLE
28.218	W8UR	C	MACKINAC ISLAND, MI	0.5W,VERT
28.2185	PT8AA		RIO BRANCO, BRAZIL	5W,GP
28.2195	LU4XS		CAPE HORN, ARGENTINA	
28.22	5B4CY	C	CYPRUS	26W,GP
28.221	PY2GOB		SAN PAULO, BRAZIL	15W,VERT
28.222	W9UXO	C	NR CHICAGO, IL	10W,GP
28.2225	HG2BHA	C	TAPOLCA, HUNGARY	10W,GP
28.225	N6TWX	I	GRASSVALLEY, CA	30W,3 EL YAGI
28.225	KW7Y		EVERETT, WA	4W,OMNI
28.225	PY2AMI	C	SASO PAULO, BRAZIL	5W,DIPOLE
28.2275	EA6AU	C	MALLORCA, BALEARIC IS	10W,5/8 GP
28.23	ZL2MHF	C	MT. CLMIE, NEW ZEALAND	50W,VERT DIPOLE
28.232	W7JPI	C	SONOITA, AZ	5W,3 EL YAGI NE
28.233	KD4EC	C	JUPITER, FL	7W,GP
28.235	VP9BA	C	HAMILTON, BERMUDA	10W,GP
28.237	NV6A	C	SAN DIEGO, CA	0.5W,VERT
28.2375	LA5TEN	C	OSLO, NORWAY	10W,5/8 GP
28.2405	5Z4ERR	C	KIAMBU, KENYA	
28.244	WA6APQ	C	LONG BEACH, CA	30W,VERT
28.245	A92C		BAHRAIN	DIPOLE NW/SE
28.2455	ZS1CTB	C	CAPETOWN, RSA	20W,1/4 VERT
28.246	N8KHE	C	MACKINAW, MI	0.050W,VERT
28.2475	EA2HB	I	SPAIN	6W,GP
28.248	K1BZ	C	BELFAST, ME	5W,VERT DIPOLE
28.2495	EA3JA		BARCELONA, SPAIN	
28.25	W3SV	C	ELVERSON, PA	10W,VERT
28.25	K0HTF	C	DES MOINES, IA	2W,GP
28.25	Z21ANB	C	BULAWAYO, ZIMBABWE	8W,GP
28.250	WA4SLT	I	HASTINGS, FL	20W,VERT
28.2505	4N3ZHK	C	MT. KUM, YUGOSLAVIA	1W,VERT
28.252	WJ7X	C	SEATTLE, WA	5W,RINGO
28.2525	OH2TEN		FINLAND	
28.255	LUIUG		G RAL PICO, ARGENTINA	5W,GP
28.2575	DK0TEN	C	ARBEITSGEN, GERMANY	40W,GP
28.258	WB4JHS	I	KISSIMMEE, FL	5W,VERT
28.259	WB9FVR	C	PEMBROKE PINES, FL	1W,DIPOLE
28.26	VK5WI	C	ADELAIDE, AUSTRALIA	10W,GP
28.262	VK2RSY	C	SYDNEY,NSW,AUSTRALIA	25W,GP
28.263	N6PEQ	C?	TUSTIN, CA	2W,HORZ DIPOLE
28.264	VK6RWA	C	PERTH, WA, AUSTRALIA	
28.265	VK4RIK		CAIRNS, AUSTRALIA	
28.266	VK6RTW	C	ALBANY, WA, AUSTRALIA	
28.266	KB4UPI	C	BIRMINGTON, AL	
28.268	VK8VF		DARWIN, AUSTRALIA	
28.2685	W9KFO	I	EATON, IL	
28.27	ZS6PW	C	PRETORIA, RSA	0.750W,VERT
28.27	VK4RTL	C	TOWNSVILLE, QLD, AUSTRALIA	10W,3 EL YAGI
28.2705	KF4MS	C	ST PETERSBURG, FL	
28.2725	9L1FTN	I	FREETOWN, SIERRA LEONE	5W
28.2745	ZS1LA		STILLBAY, RSA	10W,VERT DIPOLE
28.275	AL7GQ	C	DENVER, CO	20W,3 EL YAGI NW
28.2755	N6RDX	I	STOCKTON, CA	1W,LOOP
				20W,3 EL YAGI

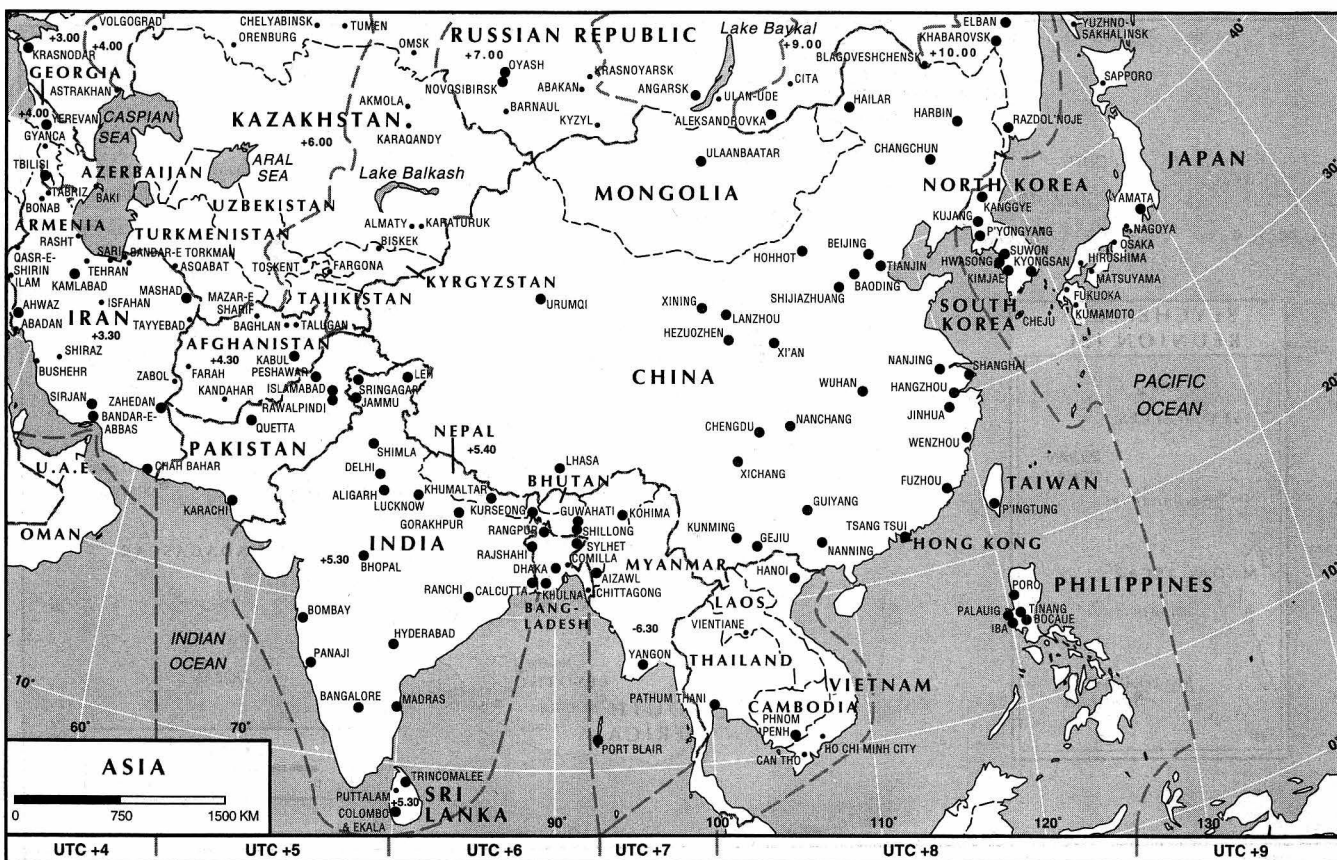
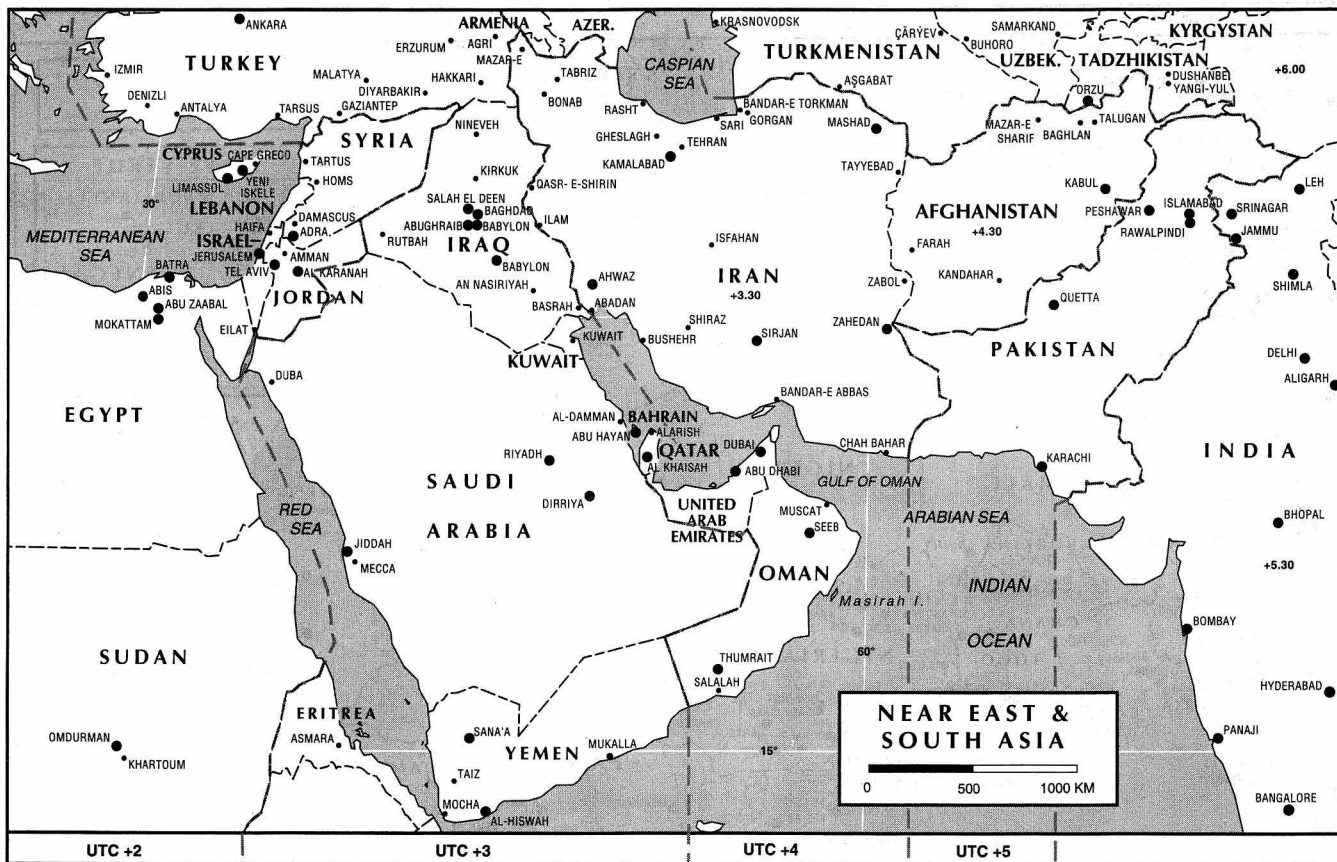
C=Continuous; I=Intermittent
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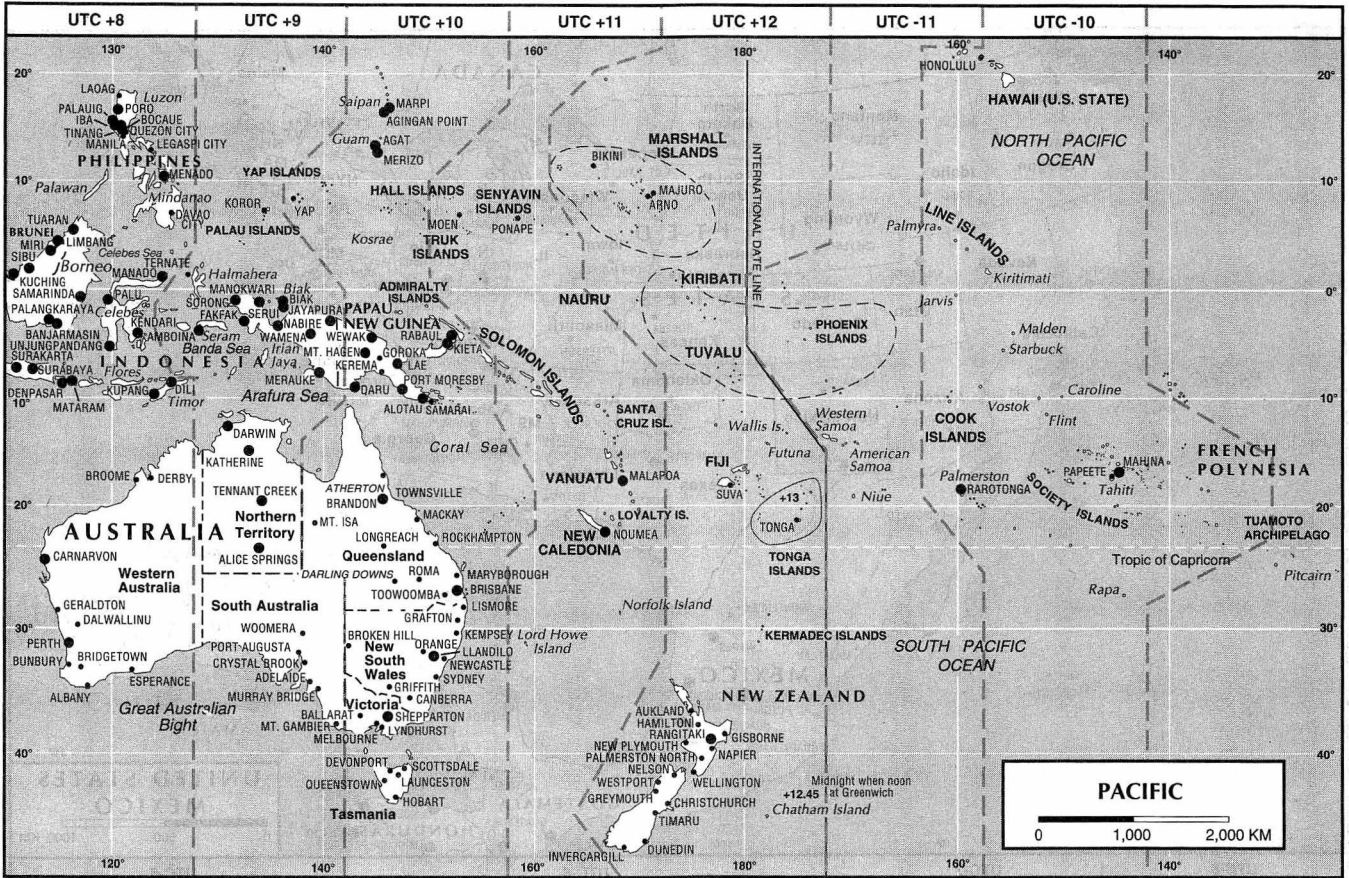
The map displays the Russian Republic and its neighboring countries and regions. Major cities and locations are marked with dots and labels. The map includes the following labels:

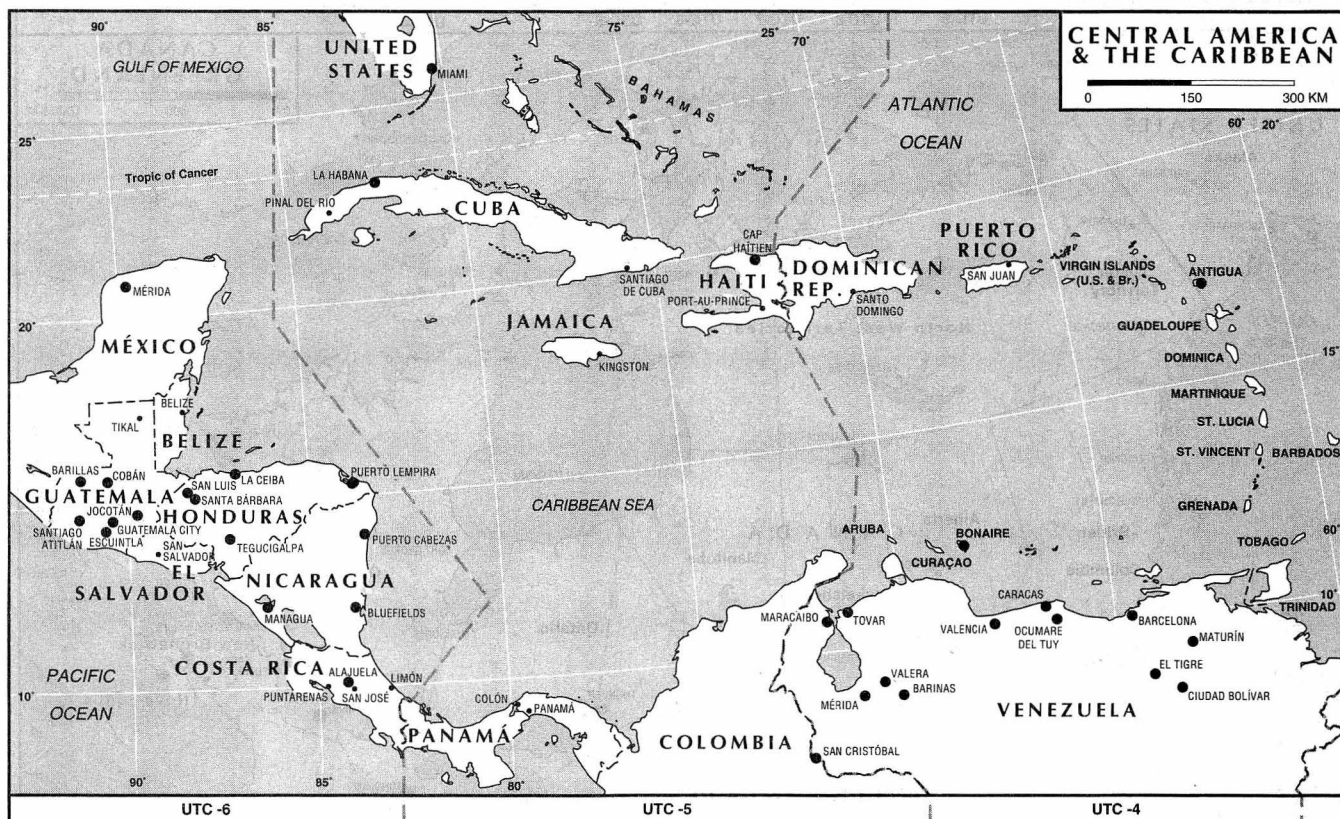
- Countries and Regions:** ESTONIA, LATVIA, LITHUANIA, BELARUS, UKRAINE, GEORGIA, ARMENIA, AZERBAIDZHAN, KAZAKHSTAN, TURKMENISTAN, UZBEKISTAN, KYRGYZSTAN, TADZHIKISTAN, IRAN, MONGOLIA, CHINA, NORTH KOREA, SOUTH KOREA, JAPAN.
- Bodies of Water:** ARCTIC OCEAN, BARENTS SEA, KARA SEA, LAPTEV SEA, BLACK SEA, CASPIAN SEA, ARAL SEA, SEA OF OKHOTSK, SEA OF JAPAN.
- Cities and Locations:** KALININGRAD, BOLSCHAKOVO, BREZNEV, LIVN, LUTSK, MIENSK, MAHILEU, PETROZAVODSK, ARCHANGELSK, TVER, TALDUM, PUSHKINO, NOOSINK, SYKTYVKAR, UKHTA, NARYAN-MAR, BEREZOV, DUDINKA, NORILSK, YAKUTSK, TURA, KANSNOYARSK, ABAKAN, KYZYL, ANGARSK, ULAN-UDE, CHITA, HAILAR, ELBAN, Khabarovsk, Komsomolsk-na-Amure, Blagoveshchensk, Harbin, Changchun, Razdolnoye, Yamato, Nagoya, Hiroshima, Matsuyama, Osaka, Suwon, Pyongyang, Kanggye, Pyongyang, Hwasong, Kimjae, Kyongsan, Tiansin, Baoding, Xining, Lanzhou, Shijiazhuang, Urumqi, Karaturuk, Biskek, Fargona, Dushanbe, Yangi-Yul, Orz, Samarkand, Tashkent, Bukhoro, Jambyl, Mashed, Tayyebad, Sirjan, Kamalabad, Krasnovodsk, Krasnodar, Volgograd, Tol'yatti, Samara, Ufa, Chelyabinsk, Orenburg, Tyumen, Krestanay, Omsk, Akmol, Pavlodar, Karagandi, Semei, Oskemen, Novosibirsk, Barnaul, OYASH, Krasnoyarsk, Abakan, Kyzyl, Angarsk, Ulan-Ude, Chita, Hailar, Elban, Khabarovsk, Komsomolsk-na-Amure, Blagoveshchensk, Harbin, Changchun, Razdolnoye, Yamato, Nagoya, Hiroshima, Matsuyama, Osaka, Suwon, Pyongyang, Kanggye, Pyongyang, Hwasong, Kimjae, Kyongsan, Tiansin, Baoding, Xining, Lanzhou, Shijiazhuang, Urumqi, Karaturuk, Biskek, Fargona, Dushanbe, Yangi-Yul, Orz, Samarkand, Tashkent, Bukhoro, Jambyl, Mashed, Tayyebad, Sirjan, Kamalabad, Krasnovodsk, Krasnodar, Volgograd, Tol'yatti, Samara, Ufa, Chelyabinsk, Orenburg, Tyumen, Krestanay, Omsk, Akmol, Pavlodar, Karagandi, Semei, Oskemen, Novosibirsk, Barnaul, OYASH, Krasnoyarsk, Abakan, Kyzyl, Angarsk, Ulan-Ude, Chita, Hailar, Elban, Khabarovsk, Komsomolsk-na-Amure, Blagoveshchensk, Harbin, Changchun, Razdolnoye, Yamato, Nagoya, Hiroshima, Matsuyama, Osaka, Suwon, Pyongyang, Kanggye, Pyongyang, Hwasong, Kimjae, Kyongsan, Tiansin, Baoding, Xining, Lanzhou, Shijiazhuang, Urumqi, Karaturuk, Biskek, Fargona, Dushanbe, Yangi-Yul, Orz, Samarkand, Tashkent, Bukhoro, Jambyl, Mashed, Tayyebad, Sirjan, Kamalabad, Krasnovodsk, Krasnodar, Volgograd, Tol'yatti, Samara, Ufa, Chelyabinsk, Orenburg, Tyumen, Krestanay, Omsk, Akmol, Pavlodar, Karagandi, Semei, Oskemen, Novosibirsk, Barnaul, OYASH, Krasnoyarsk, Abakan, Kyzyl, Angarsk, Ulan-Ude, Chita, Hailar, Elban, Khabarovsk, Komsomolsk-na-Amure, Blagoveshchensk, Harbin, Changchun, Razdolnoye, Yamato, Nagoya, Hiroshima, Matsuyama, Osaka, Suwon, Pyongyang, Kanggye, Pyongyang, Hwasong, Kimjae, Kyongsan, Tiansin, Baoding, Xining, Lanzhou, Shijiazhuang, Urumqi, Karaturuk, Biskek, Fargona, Dushanbe, Yangi-Yul, Orz, Samarkand, Tashkent, Bukhoro, Jambyl, Mashed, Tayyebad, Sirjan, Kamalabad, Krasnovodsk, Krasnodar, Volgograd, Tol'yatti, Samara, Ufa, Chelyabinsk, Orenburg, Tyumen, Krestanay, Omsk, Akmol, Pavlodar, Karagandi, Semei, Oskemen, Novosibirsk, Barnaul, OYASH, Krasnoyarsk, Abakan, Kyzyl, Angarsk, Ulan-Ude, Chita, Hailar, Elban, Khabarovsk, Komsomolsk-na-Amure, Blagoveshchensk, Harbin, Changchun, Razdolnoye, Yamato, Nagoya, Hiroshima, Matsuyama, Osaka, Suwon, Pyongyang, Kanggye, Pyongyang, Hwasong, Kimjae, Kyongsan, 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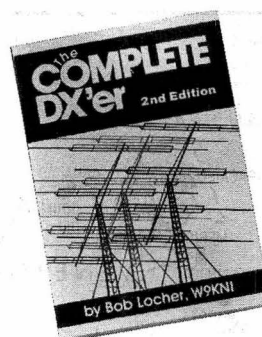
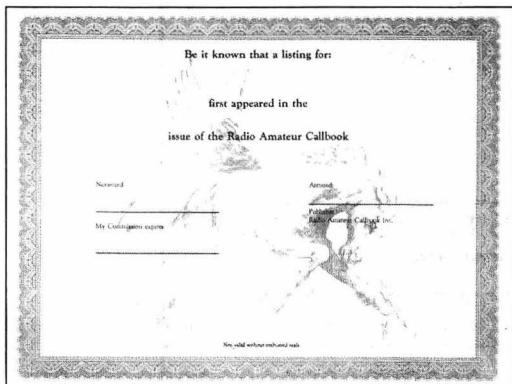
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